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Effective Date: Should correspond with the date of last RAP approval. For example, if the final Lead Author and Programmer Line Managers / Designees approved on different days, the date the last person approved is documented as the effective date.

| | |
|------------------------|--|
| Title | : Reporting and Analysis Plan for Study 207626: A Phase IV, 12 week, randomised, double-blind, double-dummy study to compare single inhaler triple therapy, fluticasone furoate/umeclidinium/vilanterol (FF/UMEC/VI), with tiotropium monotherapy based on lung function and symptoms in participants with chronic obstructive pulmonary disease |
| Compound Number | : GSK2834425 (GW685698 + GSK573719 + GW642444) |
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Description:

The purpose of this reporting and analysis plan (RAP) is to describe the planned analyses and output to be included in the Clinical Study Report for Protocol 207626.

This document will be provided to the study team members to convey the content of the Statistical Analysis Complete (SAC) deliverable and will serve as a detailed guide for the programming team.

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1. INTRODUCTION

NOTE: The RAP may also include any pre-defined analyses for publication purposes.

The purpose of this reporting and analysis plan is to describe the analyses to be included in the Clinical Study Report for Study 207626: A Phase IV, 12-week, randomised, double-blind, double-dummy study to compare single inhaler triple therapy, fluticasone furoate/umeclidinium/vilanterol (FF/UMEC/VI), with tiotropium monotherapy based on lung function and symptoms in participants with chronic obstructive pulmonary disease (COPD).

Insert revision chronology as detailed within the protocol.

| Protocol Revision Chronology: | | |
|-------------------------------|-------------|-----------------------|
| 2017N323364_00 | 11-OCT-2017 | Original Protocol |
| 2017N323364_01 | 17-JUL-2018 | Protocol amendment 01 |

2. SUMMARY OF KEY PROTOCOL INFORMATION

Best Practice: Author to copy from the protocol for applicable RAP sections with flexibility to include additional clarification, if required.

Where feasible, every effort should be made to reference the protocol.

Lead RAP author to carefully consider whether information included the RAP would be more beneficial rather than referencing the protocol.

Information contained in this section of the RAP may promote greater clarity in defining the planned analyses for RAP end-users (i.e. CS, CP & RAP Team, outsourced partners or regulatory agencies).

2.1. Changes to the Protocol Defined Statistical Analysis Plan

Detail to Include: Outline & fully justify (where applicable) changes to the planned protocol analysis.

If there are no changes or deviations from the protocol, then specify within this section.

Changes from the originally-planned statistical analysis specified in the protocol are outlined in [Table 1](#).

Table 1 Changes to Protocol-Defined Analysis Plan

| Protocol | Reporting & Analysis Plan | Rationale for Change |
|---|--|---|
| Section 10.3 ("Populations for Analysis") reads in part, "All randomised subjects, excluding those who were randomised in error. A participant who is recorded as a | The verbatim protocol text will be amended in Section 4 of this document to read, "All randomised participants, excluding those who were | Clarification of the definition of "randomized in error." |

| Protocol | Reporting & Analysis Plan | Rationale for Change |
|---|--|---|
| screen or run-in failure but was also randomised will be considered to be randomised in error. Any other participant who receives a randomisation number will be considered to have been randomised.” | randomised in error. A participant who is recorded as a screen or run-in failure and also randomised, but did not receive a dose of study treatment, will be considered to be randomised in error. Any other participant who receives a randomization number will be considered to have been randomised.” | |
| Use of the word “subject.” | <p>Text in this document will use the word “participant” in lieu of the word “subject,” except in the following cases:</p> <ol style="list-style-type: none"> 1. In the phrase “subject listing” 2. In the phrase “subject number” 3. In the definition of and abbreviation for the protocol-defined All Subjects Enrolled population 4. Titles and content of prospectively-defined statistical output generated in GSK’s HARP system. 5. Use as part of the syntax in the SAS programming language. | <p>Decision by GSK’s R&D Clinical Data Standards Board (CDSB), published on GSK’s Intranet 18th June 2018. The text below is excerpted from this published notice:</p> <p>Until an industry-wide resolution has been achieved, the R&D Clinical Data Standards Board (CDSB) has decided to continue with the discrepant terminologies and ask teams to:</p> <ul style="list-style-type: none"> • Data Quality Lead; add a note to the Reviewers Guide in submissions that the term "Subjects" is used to refer to a “Participants” in the protocol. • Statistician to add the same note to RAPs to say that all displays (Tables, Figures & Listings) will use the term 'Subjects'. <p>RAP text will refer to "Participants" in-line <i>[sic]</i> with the master RAP template and protocol.</p> |
| Refinements of descriptions of efficacy analyses. | This document identifies the primary and supplementary estimand, and describes the four attributes of each, the population (Section 7.1.3, , Section 7.3.3), the variable of interest (Section 7.1.1, Section 7.3.1), the intercurrent events of interest (Section 7.1.4, Section 7.3.4), and the summary measure(s) of interest (Section 7.1.2, Section 7.3.2). | Issuance by International Conference on Harmonization of an addendum to the ICH E9 guidance that outlines the concept of the estimand and its four components. Industry adoption of the concepts outlined in this addendum began after finalization of this study protocol. |

2.2. Study Objectives and Endpoints

State the study objectives and endpoints **EXACTLY** as specified in the protocol.

Additional clarification may also be included to further describe objectives / endpoints (i.e. if not described in other sections of the RAP). It should be highlighted if this additional information is not in the protocol.

| Objectives | Endpoints |
|---|--|
| Primary Objective | Primary Endpoint |
| To evaluate the effect of single inhaler triple therapy (FF/UMEC/VI) compared to Tiotropium after 12 weeks of treatment on lung function | Change from baseline in trough forced expiratory volume in 1 second (FEV ₁) at Week 12 (Day 85) |
| | Secondary Endpoint |
| | Changes from baseline in trough FEV ₁ at Week 4 (Day 28) and Week 12 (Day 84) |
| Other Objectives | Other Endpoints |
| To evaluate the effect of single inhaler triple therapy (FF/UMEC/VI) compared to Tiotropium after 12 weeks of treatment on Health Status | <ul style="list-style-type: none"> Proportion of responders based on the St George's Respiratory Questionnaire (SGRQ) Total Score at Week 4 and Week 12 Change from baseline in SGRQ Total Score at Week 4 and Week 12 |
| To evaluate the effect of single inhaler triple therapy (FF/UMEC/VI) compared to Tiotropium after 12 weeks of treatment on Health Status | <ul style="list-style-type: none"> Proportion of responders based on the COPD Assessment Test (CAT) Total Score at Week 4 and Week 12 Change from baseline in CAT Total Score at Week 4 and Week 12 |
| To evaluate the effect of single inhaler triple therapy (FF/UMEC/VI) compared to Tiotropium after 12 weeks of treatment on COPD exacerbations | Moderate or severe exacerbation events |
| Safety Objective | Safety Endpoints |
| To evaluate the safety profile of single inhaler triple therapy (FF/UMEC/VI) compared to Tiotropium over 12 weeks of treatment | <ul style="list-style-type: none"> Incidence of adverse events Vital signs |

2.3. Study Design

Protocol: Reference protocol where applicable and **ONLY** include supportive information.

For example, any elements which may impact or inform the planned analyses or facilitate development, review and execution of the RAP.

Protocol Schematic Recommended: Utilised from the protocol (i.e. use ‘cut’ option within .pdf version of the protocol and paste accordingly) but **DO NOT** repeat information which is apparent from the schematic, instead include bulleted points (recommended) or text descriptions to capture key study design information.

Points for Consideration: May include the following (and others as appropriate), so as to aid understanding of statistical methods and elements impacting analyses:

Design Configuration

Experimental Design (e.g. parallel, crossover, factorial, single group, SMART (sequential multiple assignment randomized trial)) and other design elements as required (e.g. dose-escalation, multicentre).

Control Method (e.g. placebo, active comparator, low dose, historical, or none [i.e. uncontrolled]).

Blind Level (e.g. open-label, single-blind, single-blind (sponsor unblinded), double-blind, double-blind (sponsor unblinded), matching placebos, double-dummy).

Sequence and Duration of All Study Periods (e.g. including pre-randomization, single- and double-blind treatment periods, washout, and post-treatment periods)

Sequential Multiple Assignment Randomized Trial (SMART) Designs (e.g. highlights that treatment switch can be built into the study design and doesn’t have to be a ‘problem’ that is solved during analysis. SMARTs eliminate confounding with rescue therapy through sequential randomization. It indirectly highlights that one can compare treatment policies with specific frontline and rescue therapies, and not just perform an ITT analysis.

Copy of Schedule of Events: If included in the Appendix add a link, otherwise delete.

Dosing Information

Dose Regimens in Each Study Period & Stage (e.g. including frequency of administration (e.g., twice daily).

Method & Criteria for Individualizing Dosing (e.g. subject weight or plasma concentrations).

Rules for Dose Changes: Include flexible dosing; modifications in dosage & frequency of dose changes or adjustments; dose reductions, interruptions or tapering and permanent discontinuation for reasons of efficacy or safety (e.g., planned interim analysis with statistical stopping rules or use of an Independent Data Monitoring Committee [IDMC]), re-challenges, and any circumstances for resuming treatment).

Treatment Assignment

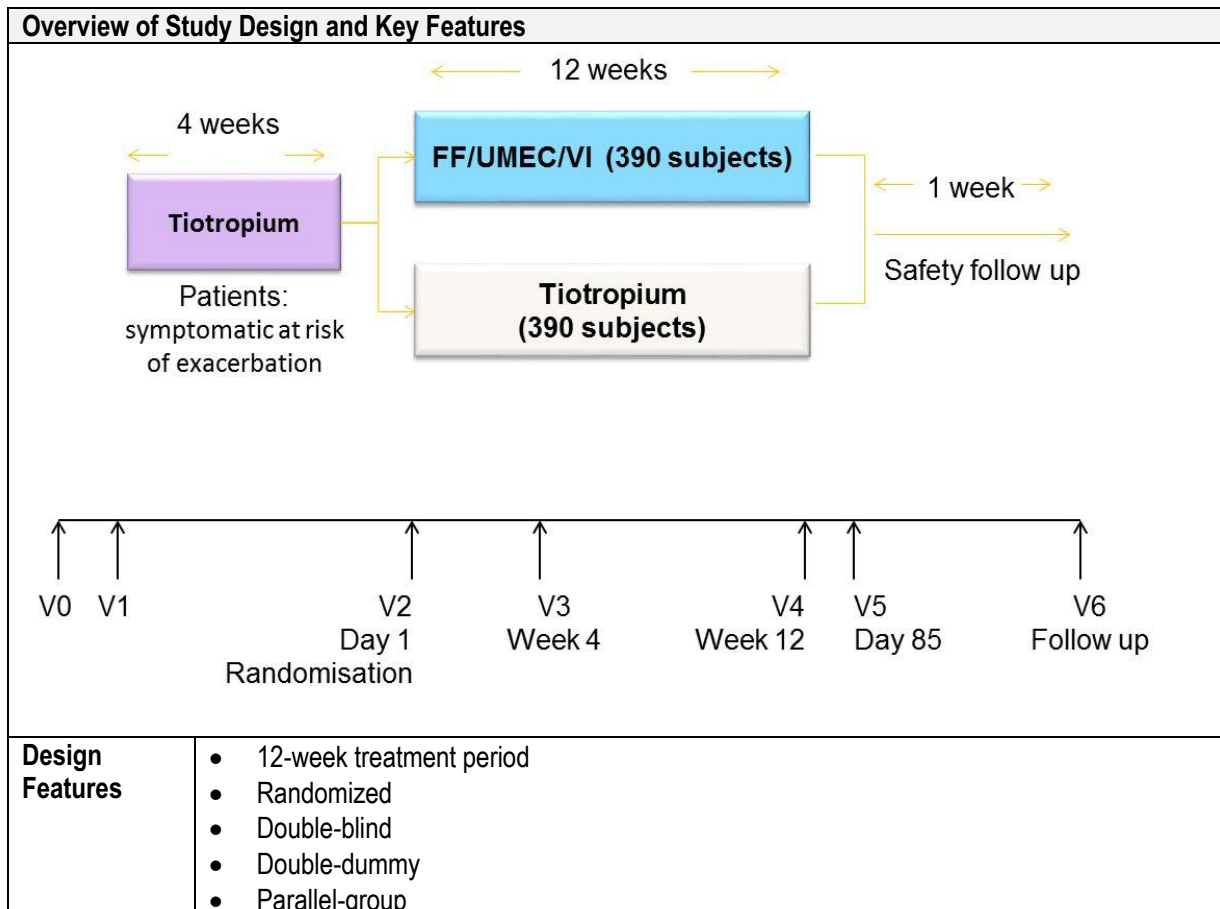
Method of Assignment to Treatment (e.g., randomization, stratification, minimisation or specify as appropriate if not randomized and is open label).

Randomization Procedures (e.g. centralized, site-based or adaptive allocation (i.e. such as assignment on the basis of earlier assignment or outcome)).

Method of Generating Randomization Schedule & Assignment (e.g. RandAll NG or other and whether interactive voice response system was used (i.e. RAMOS NG).

Utilisation of Blocking: To maintain blind, **DO NOT** includes the block size.

Adapt & expand accordingly to the study design and apply the principal features illustrated.



| Overview of Study Design and Key Features | |
|---|--|
| | <ul style="list-style-type: none"> • 1-week safety follow-up • Approximately 848 [participants] with advanced COPD will enter the run-in, in order to randomize approximately 780 [participants], in order to achieve an estimated 702 evaluable [participants]. • A study with 702 evaluable [participants] for the primary analysis will have 90% power to demonstrate superiority of FF/UMEC/VI to tiotropium based on trough FEV₁ at Week 12 (Day 85), at the two-sided 1% significance level, and estimates of residual standard deviation of 240mL and a treatment difference of 70mL. • [Participants] will be provided with short-acting albuterol/salbutamol to be used on an as-needed basis (rescue medication) throughout the study. • [Participants] who permanently discontinue double-blind study treatment are not required to withdraw from the study. [Participants] who have permanently discontinued study treatment and have not withdrawn consent will be encouraged to continue in the study and complete all remaining protocol specified clinic visits as indicated in the Schedule of Activities (Protocol Section 2). |
| Dosing | Randomized treatments are: <ul style="list-style-type: none"> • FF/UMEC/VI (100/62.5/25 mcg) via ELLIPTA once daily (QD) in the morning • Tiotropium 18 mcg via HandiHaler QD in the morning |
| Time & Events | Refer to Section 10.2 (" Appendix 2: Schedule of Activities "). |
| Treatment Assignment | <ul style="list-style-type: none"> • 4-week run-in on open-label tiotropium (via the HandiHaler) and placebo (via the ELLIPTA) • Randomization 1:1 to FF/UMEC/VI or tiotropium PAREXEL software and Interactive Web Response System (IWRS) will be used to generate the randomization schedule and for treatment allocation. Centralized randomization will be used. |
| Interim Analysis | No interim analyses are planned. |

2.4. Statistical Hypotheses / Statistical Analyses

The primary objective of this study is to compare single inhaler triple therapy (FF/UMEC/VI) with tiotropium in participants with COPD who have received tiotropium and continue to have symptoms as measured by a COPD Assessment Test (CAT) score ≥ 10 . The primary endpoint is the mean change from baseline in trough FEV₁ at Week 12 (Day 85). The primary analysis is the comparison of this endpoint between FF/UMEC/VI and tiotropium.

The null hypothesis is that there is no difference between treatment groups (i.e., $H_0: T_1 - T_2 = 0$) in the mean change from baseline in trough FEV₁ at Week 12 (Day 85), and the alternative hypothesis is there is a difference between treatment groups (i.e., $H_1: T_1 - T_2 \neq 0$), where T_1 and T_2 are the treatment means for FF/UMEC/VI and tiotropium, respectively.

3. PLANNED ANALYSES

3.1. Interim Analyses

No interim analyses are planned.

3.2. Final Analyses

The final planned primary analyses will be undertaken after the completion of the following sequential steps:

1. All participants have completed the study or have been withdrawn as defined in the protocol.
2. All required database-cleaning activities have been completed and final database release has been declared by GSK Data Management.
3. All criteria for unblinding the randomization codes have been met and the final database has been locked.
4. Randomization codes have been distributed per PAREXEL and PAREXEL Informatics' standard operating procedures and treatment details have been unblinded.
5. Database freeze has been declared by GSK Data Management.

4. ANALYSIS POPULATIONS

| Population | Definition / Criteria | Analyses Evaluated |
|-----------------------------|--|--|
| All Subjects Enrolled (ASE) | All participants for whom a record exists in the study database, including screen failures and any participant who was not screened but experienced an SAE between the date of informed consent and the planned date of the Screening visit. | Study disposition and SAEs for non-randomized participants |
| Intent-To-Treat (ITT) | All randomised participants, excluding those who were randomised in error. A participant who is recorded as a screen or run-in failure and also randomised but who did not receive any dose of study treatment will be considered to be randomised in error. Any other participant who receives a randomisation number will be considered to have been randomised. Displays will be based on the treatment to which the participant was randomised. | Study Population, Efficacy, Safety |

4.1. Protocol Deviations

Important protocol deviations (as defined in the Protocol Deviations Specification Form [PDSF]), include deviations related to study inclusion/exclusion criteria, conduct of the

trial, patient management, and patient assessment. All protocol deviations will be tracked by the study team throughout the conduct of the study in accordance with the PDSF.

Data will be reviewed prior to unblinding and freezing the database to ensure that all deviations are captured and categorised on the protocol deviations dataset. This dataset will be the basis for the summaries and listings of protocol deviations.

Important protocol deviations will be summarized by treatment group. A separate summary and listing of all inclusion and exclusion criterion deviations will also be provided. This summary will be based on data recorded on the inclusion/exclusion page of the electronic case report form (eCRF).

5. CONSIDERATIONS FOR DATA ANALYSES AND DATA HANDLING CONVENTIONS

5.1. Study Treatment & Sub-group Display Descriptors

| Treatment Group Descriptions | | | |
|---|------------------------------------|-----------------------------|-----------------|
| PAREXEL Informatics Randomization and Trial Management System | | Data Displays for Reporting | |
| Code | Description | Description | Order in output |
| A | FF/UMEC/VI 100/62.5/25 mcg ELLIPTA | FF/UMEC/VI 100/62.5/25 | 1 |
| B | Tiotropium 18 mcg HandiHaler | TIO 18 | 2 |

Treatment comparisons will be labelled “FF/UMEC/VI 100/62.5/25 vs. TIO 18”.

5.2. Baseline Definitions

The baseline value of all endpoints, except as noted in baseline definitions, will be the latest pre-first-dose assessment with a non-missing value, including those from unscheduled visits. If time is not collected, Day 1 (Visit 2) assessments are assumed to be taken prior to first dose and will be used as baseline.

| Baseline Definitions | | | |
|---|---|--------------------------|--|
| Parameter | Study Assessments Collected prior to dosing | | Baseline Definition |
| | Screening (Visit 1) | Day 1 Pre-Dose (Visit 2) | |
| Efficacy | | | |
| Trough FEV ₁ FVC* | X | X | Day 1, defined as the average of the two pre-dose measurements If one of the measurements is missing, then the baseline will be the single remaining value. |
| SGRQ Total Score | | X | Day 1 |
| CAT score | X | X | Day 1 |
| Safety | | | |
| Vital signs | X | | Most recent individual value prior to first dose (either Screening or a repeat test). Systolic and diastolic blood pressure values should come from the same assessment. |
| *: FVC is not a protocol specified efficacy endpoint. | | | |

5.3. Multicentre Studies

It is anticipated that approximately 83 sites from the United States and Europe (Poland and the Russian Federation) will participate in the study. Therefore, it is likely that many centres will enrol very small numbers of participants. Consequently, all centres within each country will be pooled.

Enrolment will be summarized and presented by country and centre. “Geographical region” is denoted in the protocol as a covariate in the statistical models assessing several efficacy measures: for the purposes of these analyses, two geographical regions will be defined: Europe (Poland and the Russian Federation) and the United States.

5.4. Examination of Covariates, Other Strata and Subgroups

5.4.1. Covariates and Other Strata

No stratification was used in this study.

Covariates to be included in the statistical analyses as outlined in Section 7 (“Efficacy Analyses”) of this document are baseline and geographical region. Additional covariates may also be considered in an *ad hoc* manner at the discretion of the study team, and if considered, would be addressed in the Clinical Study Report.

5.4.2. Examination of Subgroups

No subgroup analyses are planned.

5.5. Multiple Comparisons and Multiplicity

Given that there are only two treatments under consideration in this study, there is only one treatment comparison, that between FF/UMEC/VI and tiotropium.

No multiplicity adjustments are planned for secondary and other endpoints.

5.6. Other Considerations for Data Analyses and Data Handling Conventions

Section Aim: Details have been moved to appendices to facilitate review of the main body of the RAP. If appendices are not relevant for the study, they should be deleted and the list updated.

Flexibility to include details using sub-sections within this section, if required.

Other considerations for data analyses and data handling conventions are outlined in the following Appendices:

| Section | Component |
|----------------------|--|
| 10.3 | Appendix 3: Assessment Windows |
| 10.4 | Appendix 4: Study Phases and Treatment Emergent Adverse Events |
| 10.5 | Appendix 5: Data Display Standards & Handling Conventions |
| 10.6 | Appendix 6: Derived and Transformed Data |
| 10.7 | Appendix 7: Reporting Standards for Missing Data |

6. STUDY POPULATION ANALYSES

6.1. Overview of Planned Study Population Analyses

The study population summaries will be based on the ITT Population, unless otherwise specified.

Study population summaries of participant disposition, protocol deviations, demographic and baseline characteristics, prior and concomitant medications, and treatment compliance will be based on GSK International Data Standards Library (IDSL) Core Data Standards.

7. EFFICACY ANALYSES

7.1. Primary Efficacy Analyses

The primary efficacy analysis will assess the difference between treatments in the context of superiority of FF/UMEC/VI over tiotropium.

7.1.1. Endpoints / Variables

Where applicable, describe the method for combining measurements to create composite variables. Flexibility to include this information in [Appendix 6: Derived and Transformed Data](#).

The primary efficacy variable is the mean change from baseline in trough FEV₁.

7.1.2. Summary Measure

The summary measure of interest is the adjusted mean treatment difference in trough FEV₁ on Day 85.

7.1.3. Population of Interest

The primary efficacy analyses will be based on the ITT population.

7.1.4. Strategy for Intercurrent (Post-Randomization) Events

Discontinuation of randomized study treatment is considered an intercurrent event for the estimands.

7.1.4.1. Primary estimand

The primary treatment effect to be estimated will be the hypothetical effect if all participants had stayed on their randomised treatment. Trough FEV₁ collected up to the time of treatment discontinuation will be used in the analysis. Trough FEV₁ collected after treatment discontinuation will be set to missing. Missing data will be assumed to be missing at random (MAR).

7.1.4.2. Supplementary estimand

The supplementary treatment effect to be estimated will be the treatment policy effect of initial randomised treatment. All recorded data up to the time of study withdrawal will be included in the analysis, regardless of discontinuation of study treatment. Missing data will be assumed to be MAR. This supplementary treatment effect will only be estimated if >5% of the ITT subjects discontinued the randomized study treatment and have spirometry assessment at Visit 5 .

7.1.5. Statistical Analyses / Methods

Unless otherwise specified, endpoints / variables defined in Section 7.1.1 (“Endpoints / Variables”) will be summarised using descriptive statistics, graphically presented (where appropriate), and listed.

Trough FEV₁ will be summarized based on the estimand strategies detailed in Section 7.1.4.1 (“Primary estimand”) and Section 7.1.4.2 (“Supplementary estimand”).

7.1.5.1. Statistical Methodology Specification

| Endpoints / Variables |
|--|
| <ul style="list-style-type: none"> Primary endpoint: Change from baseline in trough FEV₁ at Day 85 Secondary endpoint: Change from baseline in trough FEV₁ at Day 28 and Day 84 |
| Model Specification |
| <ul style="list-style-type: none"> The primary model of interest is a mixed model repeated measures (MMRM) analysis, including trough FEV₁ recorded at Day 28, Day 84, and Day 85. The model will include baseline FEV₁, visit, geographical region, and treatment as covariates and visit-by-baseline FEV₁ and visit-by-treatment interaction terms. The visit-by-treatment interaction term is included to allow treatment effects to be estimated at each visit separately. The variance-covariance matrix will be assumed to be unstructured. While missing data are not explicitly imputed in the primary MMRM analyses, there is an underlying assumption that the data are missing at random. All available on-treatment assessments will be utilized and via modeling of the within-subject correlation structure, the derived treatment differences will be adjusted to take into account missing data. Two models will be fitted; one with a response variable of trough FEV₁, and one with a response variable of change from baseline in trough FEV₁. The model will utilize the OBSMARGINS (OM) option to generate a dataset with a row for every participant-visit combination that contains all the covariates and a macro variable containing the mean baseline for the participants included in the analysis. This is used to derive the adjusted means using coefficients which are based on the participants in the analysis. |
| Model Checking & Diagnostics |
| <ul style="list-style-type: none"> The Kenward and Roger method (KR) for approximating the denominator degrees of freedom and correcting for bias in the estimated variance-covariance of the fixed effects will be used. In the event the model fails to run using the KR method, then the residual method will be used instead. Distributional assumptions underlying the model used for analysis will be examined by generating a normal probability plot of the residuals and a plot of the residuals versus the fitted values (i.e. checking the normality assumption and constant variance assumption of the model respectively) to gain confidence that the model assumptions are reasonable. These plots will not be included as part of the statistical output detailed in Section 10.9 (Appendix 9: List of Data Displays). |
| Model Results Presentation |
| <ul style="list-style-type: none"> Least square (LS) means and LS mean changes from baseline with their corresponding standard errors and 95% confidence intervals (CIs) will be presented for each treatment by visit, together with |

| |
|--|
| <p>estimated treatment differences (FF/UMEC/VI vs. TIO) and the corresponding 95% CIs and p-values.</p> <ul style="list-style-type: none"> • A plot of LS mean changes from baseline and 95% CIs from the model will be generated for each treatment by visit. |
| Subgroup Analyses |
| No subgroup analyses are planned. |
| Supportive Analyses - Interactions |
| <p>The interactions between treatment and other factors will be investigated in the primary analysis as follows by adding interaction terms to the statistical model:</p> <ul style="list-style-type: none"> • An assessment of whether the effect of treatment on trough FEV₁ is modified by either geographic region or baseline FEV₁ will be made by fitting separate repeated measures models, identical to the primary analysis models described above but also including additional terms as described below. • The primary analysis model will be used with an additional treatment-by-geographical region interaction term and a treatment-by-geographical region-by visit interaction term. The p-value for the treatment-by-geographical region interaction at Day 85 will be computed using contrast statements. If that p-value is ≥ 0.10 then the interaction will be considered not to be statistically significant. If the p-value is < 0.10, further investigation will be undertaken, for example by running the primary analysis by geographic region. • The primary analysis model will be used with an additional treatment-by-baseline FEV₁ interaction term and a treatment-by-baseline FEV₁-by-visit interaction. The p-value for the treatment-by-baseline interaction at Day 85 will be obtained using contrast statements. If that p-value is ≥ 0.10 then the interaction will be considered to be not statistically significant. If the p-value is < 0.10, further investigation will be undertaken, for example by running the analysis by dichotomous categories of baseline FEV₁ values (values above and below the median). |
| Sensitivity and Supportive Analyses |
| <p>If the overall rate of discontinuation from study treatment is $> 5\%$, a sensitivity analysis for the supplementary estimand (i.e., the Treatment Policy estimand) will be undertaken to address the statistical assumptions made in the primary analysis regarding missing data and the primary statistical hypothesis. This sensitivity analysis of the Treatment Policy estimand of trough FEV₁ on Day 85 will be conducted as follows:</p> <p>A “tipping point” sensitivity analysis of trough FEV₁ at Day 85 will be undertaken for the ITT Population. This analysis will explore the impact of missing data by using differing assumptions regarding the mean treatment effect in participants who discontinue study treatment. Mean treatment effects investigated will range from a change from baseline trough FEV₁ of -150 mL to +150 mL in increments of 50 mL. For each value of the assumed mean change from baseline for FF/UMEC/VI, the full range of values for the assumed mean change from baseline for Tio will be investigated, thus including scenarios where participants who discontinue FF/UMEC/VI have a lower treatment effect than those who discontinue Tio and vice versa. The analysis results will be used to explore the conditions under which the conclusion of superiority no longer holds.</p> <p>For each participant with missing data at Day 85, a value will be imputed based</p> |

on a random draw from a normal distribution with mean equal to the corresponding assumed mean change from baseline and standard deviation taken from the observed change from baseline data for the combined treatment arms at the Day 85 visit. Data for participants with missing baseline values will not be imputed. Analysis of the complete Day 85 dataset will be carried out using an ANCOVA model with covariates of treatment group, geographical region, region and baseline. A table will be produced displaying the p-values for the treatment difference at Day 85 under the above assumptions for the mean changes from baseline in each treatment arm.

7.2. Secondary Efficacy Analyses

A single statistical model will include data from Days 28, 84, and 85, hence evaluation of the secondary efficacy variables of trough FEV₁ on Days 28 and 84 will be incorporated into the primary efficacy analysis. See Section [7.1](#) (“Primary Efficacy Analyses”) for details.

7.3. Other Efficacy Analyses

The following efficacy analysis will assess the difference between treatments in the context of superiority of FF/UMEC/VI over tiotropium.

7.3.1. Endpoints / Variables

The following endpoints will be used to assess the superiority of FF/UMEC/VI over tiotropium:

- SGRQ total score
- Proportion of population identified via SGRQ total score as responders
- CAT score
- Proportion of population identified via CAT score as responders
- Moderate / severe COPD exacerbations

7.3.2. Summary Measure

The proportions of participants identified as responders based on the SGRQ total score and CAT score at Day 28 and Day 84 will be summarized and analysed by visit and treatment group.

Mean values and changes from baseline in SGRQ total score and CAT score on Days 28 and 84 will be summarized by visit and treatment in terms of summary statistics including means, standard deviations, medians, minima, 1st and 3rd quartiles, and maxima. The treatment comparison of FF/UMEC/VI to tiotropium will be assessed in terms of the mean treatment difference at Day 28 and Day 84.

COPD exacerbations will be summarized by treatment in terms of incidence of on-treatment and post-treatment events.

7.3.3. Population of Interest

The summaries and analyses of SGRQ and CAT data and their associated responder summaries and analyses, as well as the summaries of exacerbation incidence, will be based on the ITT population.

7.3.4. Strategy for Intercurrent (Post-Randomization) Events

All endpoints will use the same strategy for intercurrent events as defined in Section [7.1.4](#) for the primary estimand.

7.3.5. Statistical Analyses / Methods

Relevant displays will be based on GSK data standards and statistical principles.

Unless otherwise specified, endpoints and variables defined in Section 7.3.1 will be summarised using descriptive statistics, graphically presented (where appropriate), and listed.

7.3.5.1. Statistical Methodology Specification

7.3.5.1.1. SGRQ total score and CAT score

| Endpoint / Variables |
|--|
| <ul style="list-style-type: none"> Change from baseline in SGRQ total score at Days 28 and 84. Change from baseline in CAT score at Days 28 and 84. |
| Model Specification |
| <ul style="list-style-type: none"> Similar model to that described above in Section 7.1.5.1 (“Statistical Methodology Specification”) for the primary efficacy analysis. Two models will be fitted; one with a response variable of SGRQ total score/CAT score and one with a response variable of change from baseline in SGRQ total score/CAT score. |

7.3.5.1.2. Responder according to SGRQ and CAT score

| Endpoint / Variables |
|---|
| <ul style="list-style-type: none"> Proportion of responders according to SGRQ total score at Days 28 and 84. Proportion of responders according to CAT score at Days 28 and 84. |
| Model Specification |
| <ul style="list-style-type: none"> The proportions of responders as determined by SGRQ total score/CAT score will be analyzed using a generalized linear mixed mode. The model will include terms for baseline score, geographical region, treatment, visit, and visit by baseline and visit by treatment interactions. TIO will be used as the reference level for treatment. The model will be fit with an unstructured variance-covariance matrix with a single model to include all visits (Days 28 and 84). Computation of CIs for the odds ratios will be based on the individual Wald tests. See Section 10.7.2.3 (“Handling of Missing Data for Statistical Analysis”) for details on how to handle missing data. |
| Model Checking & Diagnostics |
| <ul style="list-style-type: none"> Pearson residuals will be plotted by using PLOTS=RESIDUALPANEL option for the model statement in SAS. |
| Model Results Presentation |
| <ul style="list-style-type: none"> The number and percentage of responders and non-responders at each visit will be summarized by treatment group. The odds ratio, 95% CI, and p-value will be presented for FF/UMEC/VI vs. tiotropium |

7.3.5.1.3. Exacerbations

| Endpoint |
|--|
| Incidence of moderate/severe exacerbations. |
| Model Specification |
| <p>No formal statistical model is proposed. The annual raw exacerbation rate, together with the total treatment exposure, will be summarized by treatment group.</p> <p>Details of the exacerbations will also be summarized by treatment group and will include the following elements:</p> <ul style="list-style-type: none">• the number and percent of participants reporting an exacerbation, both overall and by severity (mild, moderate, severe, and moderate/severe)• number and percent of participants by number of moderate/severe exacerbations (0, 1, ≥ 2),• frequency distribution of treatment for the exacerbation• frequency distribution of severity• frequency distribution of outcome• simple summary of the duration of the exacerbation <p>On- and post-treatment exacerbations will be summarized separately.</p> |

8. SAFETY ANALYSES

The safety analyses will be based on the ITT population, unless otherwise specified.

8.1. Adverse Events Analyses

Adverse events (AEs) analyses will be based on GSK Core Data Standards.

Serious adverse events (SAEs) associated with study participation will be collected from the point of informed consent onward. All AEs, including all SAEs, will be collected starting from randomization, and will be summarised and displayed by randomised treatment group. The onset date of the adverse events relative to the blinded treatment start and stop dates will be used to determine in which period an adverse event occurs.

The AE text recorded in the eCRF will be coded using the Medical Dictionary for Regulatory Activities (MedDRA), and will be reported using the primary System Organ Class (SOC) and Preferred Term (PT). The number of participants with one or more events of any type will be calculated. Results will be displayed in the order of decreasing frequency, both across SOC and within SOC. A SOC will not be included if no AEs in that SOC are reported. If the total incidence for any two or more AEs is equal, the events will be presented in alphabetical order.

Adverse events will also be listed, with SOC, event (preferred term), treatment group, number of participants with the event, and specific subject numbers. Demographic details (e.g. age, gender and race), as well as details of the individual adverse events, will be included in these listings. Listings will be sorted within participant by the date of onset of the AE.

The following by-treatment AE summaries will be provided:

- On-treatment AEs
- Post-treatment AEs
- On-treatment drug-related AEs
- Pre-treatment SAEs
- On-treatment SAEs
- Post-treatment SAEs
- On-treatment fatal AEs
- On-treatment drug-related SAEs
- Pre-treatment SAEs leading to withdrawal from study
- On-treatment AEs leading to withdrawal from study
- On-treatment AEs leading to discontinuation of study treatment
- On-treatment AEs of special interest (AESI)
- On-treatment common non-serious AEs
- 10 most frequent on-treatment AEs in each treatment group
 - In case of ties in frequency, all AEs of that frequency will be displayed
- Standard summary for Food and Drug Administration Amendments Act (FDAAA) report
- Standard summary for European Clinical Trials Database (EudraCT) report

In addition, the following listings of AE data will be provided:

- Subject numbers for all AEs
- Subject numbers for AESI
- All AEs
- Non-fatal SAEs
- Fatal AEs
- AEs leading to withdrawal from study
- AEs leading to discontinuation of study treatment
- Criteria for determining SAEs

8.2. Adverse Events of Special Interest Analyses

The table in Section 10.6.4 (“Safety”) presents the groups of Adverse Events of Special Interest (AESI). Groups which are not standardized MedDRA queries comprise a selection of PTs defined by GSK. The complete list, including the PTs that contribute to each of the groups, will be provided by Safety and Medical Governance using the MedDRA version current at the time of reporting. This list will be finalized prior to unblinding.

A comprehensive list of MedDRA terms based on clinical review will be used to identify each type of event. Changes to the MedDRA dictionary may occur between the start of the study and the time of reporting. Furthermore, emerging data from on-going studies may highlight additional adverse events of special interest. Therefore, the list of terms to be used for each event of interest and the specific events of interest will be based on the safety review team (SRT) agreements in place at the time of reporting.

8.3. Other Safety Analyses

Summary statistics of vital signs collected at Visit 1 (Screening) and Visit 4 (Week 12), and change from screening baseline values will be presented by treatment group. Vital signs collected at the Study Treatment Discontinuation Visit and on the Pneumonia Details eCRF form will be included in ‘minimum/maximum post-baseline’ summaries but will not be summarized separately.

On- and post-treatment bone fractures collected on the Fractures Details eCRF form and on- and post-treatment pneumonia assessments collected on the Pneumonia Details eCRF form will be summarised separately by treatment group. A summary of chest x-rays (on- and post-treatment) will include data from the Exacerbation Chest X-ray and Pneumonia Chest X-ray eCRF pages.

12-lead ECG findings (normal, abnormal – not clinically significant, abnormal – clinically significant) collected at Visit 1 (Screening) will be summarized with frequency distributions by treatment group. Screening lab results will be summarised with descriptive statistics by treatment group.

Any pregnancies reported during the study will be summarized in CSR case narratives. Any pregnancy complication or elective termination of a pregnancy for medical reasons will be recorded as an AE or SAE and included in summaries and listings of AEs/SAEs.

9. REFERENCES

GlaxoSmithKline Document Number 2017N323364_00, 207626, A Phase IV, 12 week, randomised, double-blind, double-dummy study to compare single inhaler triple therapy, fluticasone furoate/umeclidinium/vilanterol (FF/UMEC/VI), with tiotropium monotherapy based on lung function and symptoms in participants with chronic obstructive pulmonary disease, 11-OCT-2017

GlaxoSmithKline Document Number 2017N323364_01, 207626, A Phase IV, 12 week, randomised, double-blind, double-dummy study to compare single inhaler triple therapy, fluticasone furoate/umeclidinium/vilanterol (FF/UMEC/VI), with tiotropium monotherapy based on lung function and symptoms in participants with chronic obstructive pulmonary disease, 17-JUL-2018

Jones PW and Forde Y. (2016) St. Georges Repository Questionnaire for COPD Patients Manual, version 1.3.

Kon, SS, et al. Minimum clinically important difference for the COPD Assessment Test: a prospective analysis. *Lancet Respir Med.* 2014;2(3):195-203.

Meguro M, Barley EA, Spencer S, Jones PW. Development and validation of an improved COPD-Specific Version of the St. George Respiratory Questionnaire. *Chest* 2007;132(2):456-63.

10. APPENDICES

10.1. Appendix 1: Protocol Deviation Management

No Per-Protocol Population is defined in this study; hence, no data will be excluded from planned analyses due to protocol deviations. However, protocol deviations will be monitored during the study, and important protocol deviations will be identified as detailed in the Protocol Deviation Specification Form prior to reporting. Details of the summary and listing of protocol deviations can be found in Section [4.1](#) (“Protocol Deviations”).

10.2. Appendix 2: Schedule of Activities

| Protocol Activity | Pre-Screen | Screen | Treatment | | | | Follow-up | |
|---|-----------------------|--------------------------------------|--------------------------|------------------------------------|------------------------------------|---------------|---|--|
| | Visit 0 | Visit 1 Screen / Run-in | Visit 2 Randomization | Visit 3 | Visit 4 | Visit 5 | Study Treatment Discontinuation Visit | Visit 6 Safety Follow-up Contact |
| Study Day | Day -56 to -28 | Day- 28 | Day 1 | Day 28 | Day 84 | Day 85 | | Day 91 |
| Week | -8 to -4 | -4 | 0 | 4 | 12 | 12 | | 13 |
| Window | | -3 / +8d (Day -31 to -21) | | -4 / +2d (Day 24 to 30) | -4 / +2d (Day 80 to 86) | | | -1 / +4d (Day 90 to 95) |
| Written Informed Consent ^a | X | X | | | | | | |
| Genetic Informed Consent ^b | X | X | | | | | | |
| Demography ^c | X | X | | | | | | |
| Medical History, including cardiovascular history | | X | | | | | | |
| COPD and Exacerbation History | | X | | | | | | |
| Concomitant Medication Assessment | X | X | X | X | X | | X | X |
| Inclusion/Exclusion Criteria | | X | X | | | | | |
| Smoking History | | X | | | | | | |
| Smoking status | | X | | | X | | X | |
| Smoking Cessation Counselling | | X | | | X | | X | |
| Register Visit in IWRS | X | X | X | X | X | | X | X |
| CAT ^d | | X | X | X | X | | | |
| SGRQ-C ^d | | | X | X | X | | | |
| Reversibility Testing ^e | | X | | | | | | |
| Trough Spirometry ^f | | | X | X | X | X | | |
| Device training and registration | | X | X | | | | | |
| Exacerbation Assessment | | X | X | X | X | | X | X |
| Physical examination ^g | | X | | | X | | X | |
| Adverse Events Assessment | | X | X | X | X | | X | X |
| Vital signs ^h | | X | | | X | | X | |
| ECG | | X | | | | | | |
| Chest X-ray ⁱ | | X | | | | | | |

| Protocol Activity | Pre-Screen | Screen | | Treatment | | | Follow-up | |
|--|------------|----------------------------|--------------------------|-----------|---------|---------|---|--|
| | Visit 0 | Visit 1 Screen / Run-in | Visit 2 Randomization | Visit 3 | Visit 4 | Visit 5 | Study Treatment Discontinuation Visit | Visit 6 Safety Follow-up Contact |
| Oropharyngeal examination | | X | X | X | X | | X | |
| Blood Draw for Genetics research ^j | | | X | | | | | |
| Hematology/biochemistry ^k | | X | | | | | | |
| Urine Pregnancy Test ^l | | X | | | X | | X | |
| Hepatitis B and C tests | | X | | | | | | |
| Dispense run-in treatment | | X | | | | | | |
| Dispense study treatment | | | X | X | | | | |
| Administer run-in treatment in clinic ^m | | X | | | | | | |
| Administer study treatment in clinic ⁿ | | | X | X | X | | | |
| Assess run-in treatment compliance | | | X | | | | | |
| Collect run-in treatment | | | X | | | | | |
| Assess study treatment compliance | | | | X | X | | X | |
| Collect study treatment | | | | X | X | | X | |
| Dispense albuterol/salbutamol | | X | X | X | X | | | |
| Collect albuterol/salbutamol | | | X | X | X | X | X | |
| Dispense paper Medical Problems worksheet | X | X | X | X | X | | | |
| Review paper Medical Problems worksheet | | X | X | X | X | X | X | |

- a. Informed consent must be conducted at the Pre-screen Visit prior to performing any study procedures including the changing or withholding of medications. The informed consent may be given at Screening Visit 1 if the participant does not take or has not taken any protocol excluded medications. The Pre-screen and Screening Visits can occur on the same day.
- b. Genetics research consent may be obtained at the same time as the study informed consent and must be obtained prior to obtaining a genetic blood sample. The sample can be collected at any time after Visit 2, providing consent is obtained.
- c. Demography may be captured at either the Pre-screen Visit or Screening Visit.
- d. SGRQ-C and CAT will be completed electronically, and should be conducted in the following order and before other study assessments: CAT, SGRQ-C.
- e. At Screening Visit 1 both pre- and post-bronchodilator spirometry will be conducted. Participants are required to withhold their usual morning doses of their COPD meds including rescue albuterol/salbutamol for the protocol designated period prior to reversibility testing.

- f. Pre-bronchodilator spirometry will be performed pre-dose at 30 mins and 5 mins prior to taking the morning dose of study treatment, between 6am and 11am and after withholding rescue albuterol/salbutamol for ≥ 4 hours. On Day 85, study drug will not be administered following spirometric assessments.
- g. Physical examination may include height, weight, blood pressure and temperature.
- h. Vital signs must be performed prior to spirometry and prior to taking morning dose of study treatment.
- i. Chest X-ray is required at Screening (or historical x-ray obtained within 3 months prior to Screening) and at any time there is a suspected pneumonia or a mod/severe exacerbation.
- j. Genetic consent must be obtained prior to obtaining a blood sample.
- k. Hematology and chemistry panels will include full and differential blood count and liver chemistry. See Appendix 8 of the protocol.
- l. All female participants of child bearing potential will have a urine pregnancy test at Visits 1, 4 and Study Treatment Discontinuation Visit (if applicable).
- m. Participants must withhold their morning dose of existing COPD medication/study treatment and not take their treatment until instructed to do so by study staff.
- n. Participants must withhold their morning dose of study treatment at each clinic visit and not take their study treatment until instructed to do so by study staff.

When multiple assessments and procedures are performed, suggested order is CAT, SGRQ-C, vitals, ECG, spirometry, clinical lab assessments.

10.3. Appendix 3: Assessment Windows

In instances where multiple measurements have been collected and recorded at the same time point, then the first non-missing value will be used as the assessment associated with that time point.

In general terms, data will be reported per the nominal time of clinic visits and assessments as specified in the protocol. For example, if a participant's recorded values for the Week 4 visit were actually made on the 21st day of treatment, they will be presented as Week 4 values in the summary tables.

Participants that permanently stop study medication early between scheduled clinic visits should undergo all assessments listed for the Study Treatment Discontinuation Visit. Data collected at this visit will be listed and used in summary or analysis tables as part of the 'worst case post- baseline' summary/analysis if appropriate.

10.4. Appendix 4: Study Phases and Treatment-Emergent Adverse Events

10.4.1. Study Phases

Assessments and events will be classified per time of occurrence relative to the start and/or stop date of the randomized study treatment. The earliest and latest exposure randomized study treatment start and stop dates will be used to determine whether an assessment or event was pre-treatment, on-treatment or post-treatment. If it is not possible to tell whether an assessment or event was on-treatment, it will be considered as on-treatment. The 'worst case-post baseline' derivation for summaries will consider all scheduled and unscheduled measurements that have been assigned a treatment phase of 'On-treatment'.

10.4.1.1. Study Phases for Concomitant Medication

COPD medication combinations taken at screening will include all COPD medications that were taken on the day of the screening visit, excluding medications that stopped on the day of the screening visit.

Treatment phases for summaries of COPD and non-COPD concomitant medications will be assigned as follows:

| Treatment Phase | Definition |
|--------------------|--|
| Prior to Screening | <p>Medications taken between date of Screening – 90 days and date of Screening (inclusive) defined as:</p> <p>(conmed start date <= date of Screening or 'Taken prior to study?' is 'Yes') and (conmed stop date >= date of Screening – 90 or (conmed stop date is completely missing and date of Screening is non-missing))</p> <p>Note: this screening data will only be summarized for COPD medications. All screening data will be listed.</p> |
| Run-in | <p>Medications taken any time between the date of Screening and Treatment Start Date (exclusive) defined as:</p> <p>(conmed start date < randomized treatment start date or randomized treatment not started or conmed start date is missing) and (conmed stop date > date of Screening or (conmed stop date is completely missing and date of Screening is non-missing))</p> |
| On-treatment | <p>If randomized treatment stop date > randomized treatment start date then this includes medications taken between the randomized treatment start date and randomized treatment stop date - 1 (inclusive) defined as follows:</p> <p>(conmed start date < randomized treatment stop date or conmed start date is missing) and (conmed stop date >= randomized treatment start</p> |

| Treatment Phase | Definition |
|-----------------|---|
| | <p>date or (conmed stop date is completely missing and randomized treatment start date is non-missing))</p> <p>If randomized treatment stop date = randomized treatment start date then this includes medications taken on the randomized treatment start date (which is equal to the randomized treatment stop date) defined as follows.</p> <p>(conmed start date <= randomized treatment stop date or conmed start date is missing) and (conmed stop date >= randomized treatment start date or (conmed stop date is completely missing and randomized treatment start date is non-missing))</p> |
| Post-treatment | <p>If randomized treatment stop date > randomized treatment start date then this includes medications taken between the date of randomized treatment stop date and the date of study conclusion (inclusive) defined as follows:</p> <p>(conmed start date <= study conclusion date or conmed start date is missing) and (conmed stop date >= randomized treatment stop date or (conmed stop date is completely missing and randomized treatment stop date is non-missing))</p> <p>If randomized treatment stop date = randomized treatment start date then this includes medications taken between the date of randomized treatment stop date + 1 and the date of study conclusion (inclusive) defined as follows.</p> <p>(conmed start date <= study conclusion date or conmed start date is missing) and (conmed stop date > randomized treatment stop date or (conmed stop date is completely missing and randomized treatment stop date is non-missing))</p> |

NOTES:

- A concomitant medication will be classed in every period of the study in which it was taken (e.g., prior to screening, run-in, on- treatment, post-treatment).
- See Section [10.7.2.2](#) for handling of partial dates.

Details of the handling of partial and missing concomitant medication dates can be found in Section [10.7.2](#) (“Handling of Missing Data”).

10.4.1.2. Study Phases for Other Data

Any events/assessments for participants not in the ITT population will be assigned a Pre-treatment phase.

For all events and assessments where time is recorded, pre-treatment, on-treatment and post-treatment phases will be defined as below:

| Study Phase | Definition |
|----------------|--|
| Pre-Treatment | <ul style="list-style-type: none"> Event onset date/time or assessment date/time < randomized treatment start date/time |
| On-Treatment | <ul style="list-style-type: none"> Randomized treatment start date/time ≤ event onset date/time or assessment date/time ≤ randomized treatment stop date + 1, or any event/assessment with a missing or partial onset date unless there is evidence it was not on-treatment |
| Post-Treatment | <ul style="list-style-type: none"> Event onset date/time or assessment date/time ≥ randomized treatment stop date + 2, and event onset date/time or assessment date/time ≤ study conclusion date |

For all events and assessments (with the exception of concomitant medications, SGRQ and CAT assessments) where time is not recorded, pre-treatment, on-treatment and post-treatment phases will be defined as below:

| Study Phase | Definition |
|----------------|---|
| Pre-Treatment | <ul style="list-style-type: none"> Event onset date or assessment date < randomized treatment start date |
| On-Treatment | <ul style="list-style-type: none"> Randomized treatment start date ≤ event onset date or assessment date ≤ randomized treatment stop date + 1, or any event/assessment with a missing or partial onset date unless there is evidence it was not on-treatment |
| Post-Treatment | <ul style="list-style-type: none"> Event onset date or assessment date ≥ randomized treatment stop date + 2 and event onset date or assessment date ≤ study conclusion date |

For SGRQ and CAT assessments, pre-treatment, on-treatment and post-treatment phases will be defined as below:

| Study Phase | Definition |
|----------------|--|
| Pre-Treatment | <ul style="list-style-type: none"> Event onset date or assessment date ≤ randomized treatment start date |
| On-Treatment | <ul style="list-style-type: none"> Randomized treatment start date < event onset date or assessment date ≤ randomized treatment stop date + 1, or any event/assessment with a missing or partial onset date unless there is evidence it was not on-treatment |
| Post-Treatment | <ul style="list-style-type: none"> Event onset date or assessment date ≥ randomized treatment stop date + 2 and event onset date or assessment date ≤ study conclusion date |

10.4.2. Treatment-Emergent Flag for Adverse Events and Exacerbations

| Flag | Definition |
|--------------------|---|
| Treatment Emergent | Randomized treatment Start Date \leq AE Start Date \leq Randomized treatment Stop Date + 1. |

NOTES:

- If the randomized treatment stop date is missing, then the AE will be considered to be On-Treatment.
- Time of randomized treatment dosing and start/stop time of AEs should be considered, if collected.

10.5. Appendix 5: Data Display Standards & Handling Conventions

10.5.1. Reporting Process

| Software | |
|---|-------------------------------|
| The currently supported versions of SAS software will be used to program all output described in this document. | |
| Reporting Area | |
| HARP Server | uk1salx00175 |
| HARP Compound | gsk2834425/mid207626/final_01 |
| Analysis Datasets | |
| Analysis datasets will be created according to CDISC standards (SDTM Implementation Guide Version 3.2 (or more recent, if updated after finalization of this document) & Analysis Data Model (ADaM) Implementation Guide Version 1.0 (or more recent, if updated after finalization of this document)). | |
| Generation of RTF Files | |
| RTF files will be generated from output described in this analysis plan. | |

10.5.2. Reporting Standards

| General |
|--|
| <ul style="list-style-type: none"> All data displays (Tables, Listings and Figures) will use the term "Subject" which reflects CDISC and GSK Data Display Standards terminology. The current GSK Integrated Data Standards Library (IDSL) will be applied for reporting, unless otherwise stated (IDSL Standards Location: https://spope.gsk.com/sites/IDSLLibrary/SitePages/Home.aspx): <ul style="list-style-type: none"> 4.03 to 4.23: General Principles 5.01 to 5.08: Principles Related to Data Listings 6.01 to 6.11: Principles Related to Summary Tables 7.01 to 7.13: Principles Related to Graphics |
| Formats |
| <ul style="list-style-type: none"> Unless otherwise stated, all results will be reported according to the treatment to which the participant was randomized. However, there may be additional adhoc displays for individual participants using the actual treatment received. GSK IDSL Statistical Principles (5.03 & 6.06.3) for precision (i.e., the number of decimal places reported) will be adopted for reporting of data based on the raw data collected. Numeric data will be reported at the precision collected on the eCRF or recorded in the raw dataset if from non-eCRF sources. The reported precision from non eCRF sources will follow the IDSL statistical principles but may be adjusted to a clinically interpretable number of decimal places. Percentages between 1% and 99%, inclusive, will be rounded to integers. Percentages greater than 0%, but less than 1%, will be reported as <1%, and percentages greater than 99%, but less than 100%, will be reported as >99%. |

| Planned and Actual Time | |
|--|--|
| <ul style="list-style-type: none"> • <u>Reporting for tables, figures, and statistical analyses</u> <ul style="list-style-type: none"> • Planned time relative to dosing will be used in figures, summaries, statistical analyses, and calculation of any derived parameters, unless otherwise stated. The impact of any major deviation from the planned assessment times and/or scheduled visit days on the analyses and interpretation of the results will be assessed as appropriate. <p><u>Reporting for Data Listings</u></p> <p>Planned and actual time relative to randomized study treatment dosing will be shown in listings (Refer to IDSL Statistical Principle 5.05.1). Unscheduled or unplanned readings will be included in the data listings.</p> | |
| Unscheduled Visits | |
| <ul style="list-style-type: none"> • Unscheduled visits will not be included in figures or in summary tables except as a part of a 'minimum/maximum post-baseline' assessment. • • All unscheduled visits will be included in listings. | |
| Descriptive Summary Statistics | |
| Continuous Data | Refer to IDSL Statistical Principle 6.06.1 |
| Categorical Data | N, n, frequency, % |
| Graphical Displays | |
| <ul style="list-style-type: none"> • Refer to IDSL Statistical Principles 7.01 to 7.13. • The programs for statistical analysis tables will create SAS datasets with the unrounded numbers from the statistical models to be used in any graphs. These datasets will include all LS means, standard errors, treatment differences or ratios, and CIs. These analysis datasets will be created for all analysis tables regardless of whether a figure is planned as part of SAC. | |

10.6. Appendix 6: Derived and Transformed Data

10.6.1. General

| Study Day |
|--|
| <ul style="list-style-type: none"> Calculated as the number of days from treatment start date (i.e., randomised treatment start date): <ul style="list-style-type: none"> Reference date = missing → Study day = missing Reference date < treatment start date → Study day = reference date – treatment start date Reference date ≥ treatment start date → Study day = reference date – treatment start date + 1 |
| Randomized Treatment Start and Stop Dates |
| <ul style="list-style-type: none"> Randomized treatment start date will be defined as the earliest treatment start date. Randomized treatment stop date will be defined as the latest date of randomized treatment exposure date or date of last dose from treatment discontinuation eCRF page. Treatment stop date will be imputed as study completion date if the date of last dose cannot be confirmed but investigational product is returned at the end of study visit (follow up), or if the date of last dose can be confirmed in protocol deviation log to be after study completion date, or if subject completes the study and did not return the investigational product at Visit 4 and the last dose cannot be confirmed. |

10.6.2. Study Population

| Demographics |
|---|
| Age |
| <p>Age is calculated in the Interactive Web Response System (IWRS) and will be imported from the IWRS into the clinical database.</p> <p>The IWRS will use GSK standard IDSL algorithms to calculate age. In accordance with GSK policy, only year of birth is collected in the IWRS. To estimate participant age, a complete birthdate will be estimated by using the year recorded by the IWRS and assigning month and day values of '30JUN.'</p> <p>The birth date will be presented in listings as 'YYYY.'</p> <p>Completely missing dates of birth will remain as missing, with no imputation applied. Consequently, the age of the participant will not be calculated and will remain missing.</p> <p>Age, in whole years, will be calculated based on the Pre-Screening Visit date (or Screening date, if pre-screening is not evaluated).</p> |
| Age Category |
| <p>Age categories are based on age at Pre-screening and are defined as:</p> <ul style="list-style-type: none"> ≤64 years 65-74 years 75-84 years ≥85 years |
| Body Mass Index (BMI) |
| <p>BMI will be calculated in the eCRF as Weight (kg) / Height (m) ².</p> |

| Demographics |
|---|
| Race |
| <p>The high-level Food and Drug Administration (FDA) race categories and designated Asian subcategories are:</p> <ol style="list-style-type: none"> 1. Black or African Heritage 2. American Indian or Alaska Native 3. Asian <ol style="list-style-type: none"> a. Central/South Asian Heritage b. Japanese/East Asian Heritage/South East Asian Heritage c. Mixed Asian Heritage (only required if data exist) 4. Native Hawaiian or other Pacific Islander 5. White <p>These categories and subcategories will be summarized along with all combinations of high-level categories which exist in the data. All the high-level race categories and the Asian subcategories must appear on the display even if there are no participants in a particular category, but combinations that do not exist in the data do not need to be represented. Combinations will be represented as the concatenation of the high-level category terms, e.g., "White & Asian". The designated Asian subcategories will not be summarized as combinations with other categories.</p> <p>In addition, the standard race categories collected on the eCRF page will be summarized along with categories for mixed race. The categories are:</p> <ol style="list-style-type: none"> 1. American Indian or Alaska Native 2. Asian - Central/South Asian Heritage 3. Asian – East Asian Heritage 4. Asian – Japanese Heritage 5. Asian – South East Asian Heritage 6. Mixed Asian Heritage (only required if data exist) 7. African American/African Heritage 8. Native Hawaiian or other Pacific Islander 9. White – Arabic/North African Heritage 10. White – White/Caucasian/European Heritage 11. White – Mixed Race 12. Mixed Race <p>"Asian – Mixed Race" is only used if more than one Asian category, but no non-Asian race, is selected. Similarly, "White – Mixed Race" is only used if both of the White categories and no non-White races are selected. If multiple races of different types are selected, then the overall "Mixed Race" category is used.</p> <p>A participant will only be represented in a single category. A participant who selects a combination of races will be counted as "Asian – Mixed Race," "White – Mixed Race," or "Mixed Race," but not in each of the constituent terms. Therefore, the counts will add up to the total number of participants with a response, and the percentages will add to 100%.</p> |

| Participant Disposition |
|---|
| <ul style="list-style-type: none"> • For Kaplan-Meier plots of study withdrawal over time and discontinuation from study treatment over time, censoring will be performed as follows: <ul style="list-style-type: none"> ○ For study withdrawal, participants are represented from their Day 1 date to the date of early withdrawal from the study (or date of death). Participants that completed the study are |

Participant Disposition

censored at the earliest of the date of completion and Day 85.

- For discontinuation from study treatment, participants are represented from their Day 1 date to the date of discontinuation from study treatment (or date of death). Participants that complete study treatment per protocol are censored at the earliest of their study treatment stop date and Day 84.

Cardiovascular Risk Factors

- Participants with at least one of the following current or past medical conditions at Screening will be classed as having a cardiovascular (CV) risk factor. The number of CV risk factors at Screening (0, 1, or ≥ 2) will be derived.
 - Angina pectoris
 - Coronary artery disease
 - Myocardial infarction
 - Arrhythmia
 - Congestive heart failure
 - Hypertension
 - Cerebrovascular accident
 - Diabetes mellitus
 - Hypercholesterolemia

Smoking Status

- Smoking Status at Screening is determined directly from the eCRF.
- A participant's smoking status from Visit 2 (Day 1) onwards will be derived from the smoking status at the visit in question and any changes in smoking status from the time of the previous assessment (e.g., date of any changes in status were made).
- Only smoking status responses recorded at scheduled visits will be included in the summary tables.

Treatment compliance

If a dose counter start count is missing, then it will be assumed to be 30. If any dose counter stop is missing, then the treatment compliance will be set to missing for that participant and for that inhaler.

Compliance is calculated as follows:

- ELLIPTA compliance = (dose counter start – dose counter stop) x 100 / (exposure stop date – exposure start date +1)
- HandiHaler compliance = (number of capsules dispensed – number of capsules returned) x 100 / (exposure stop date – exposure start date +1)
- Overall Compliance = (compliance for ELLIPTA + compliance for HandiHaler) / 2.

Overall and individual inhaler compliance will be summarized during both the run-in and randomized study treatment periods, and will be categorized as follows:

- < 80 %
- ≥ 80 % to < 95 %
- ≥ 95 % to ≤105 %
- >105 % to ≤120 %
- >120 %.

If a participant received a treatment other than the randomized study treatment during the study, the compliance will still be calculated using data from all containers received and overall exposure start and stop dates.

Medical Conditions and Concomitant Medications**COPD Concomitant Medications**

- COPD concomitant medications will be grouped into the following RMCs based on pre-defined code lists derived from ATC classifications:
 - Antiinfectives (antibiotics, antifungals, antivirals, antiseptics)
 - Short-acting anticholinergic
 - Short-acting beta-2 agonist
 - Long-acting anticholinergic
 - Long-acting beta-2 agonist
 - Xanthine
 - PDE4 inhibitor
 - Corticosteroid – inhaled
 - Corticosteroid – depot
 - Corticosteroid - systemic oral parenteral and intra-articular
 - Corticosteroid – other
 - Leukotriene receptor antagonist
 - Nedocromil or cromolyn sodium
 - Mucolytic
 - Oxygen
 - Other medication given for exacerbation

| Medical Conditions and Concomitant Medications |
|--|
| <ul style="list-style-type: none"> • Other COPD medication |
| COPD Medication combination |
| <p>COPD medications taken on the day of the Screening visit will be grouped into the following categories based on the RMC classification:</p> <ul style="list-style-type: none"> • ICS • LABA • LAMA • Xanthine • PDE4 Inhibitors • Any combination of the above • Other • None |
| COPD Exacerbation History |
| <p>COPD exacerbations reported in the past 12 months will be categorized as 0, 1, 2, ≥ 3</p> <p>The number of COPD exacerbations reported in the past 12 months prior to Screening will be summarized in three categories: moderate COPD exacerbations, severe COPD exacerbations, and moderate/severe COPD exacerbations.</p> <p>Moderate COPD exacerbations are defined as exacerbations that required treatment with systemic/oral corticosteroids and/or antibiotics (not involving hospitalization).</p> <p>Severe COPD exacerbations are defined as exacerbations that required in-patient hospitalization.</p> <p>The total number of moderate/severe COPD exacerbations is defined as the total numbers of moderate and severe COPD exacerbations.</p> |

| Reversibility |
|--|
| <ul style="list-style-type: none"> A participant's status as reversible to salbutamol is calculated at Screening and is based on the difference (absolute change and % change) between a participant's pre-salbutamol assessment of FEV₁ and their post-salbutamol assessment FEV₁ and is defined as follows: <ul style="list-style-type: none"> Reversible, if the difference in FEV₁ was $\geq 12\%$ and ≥ 200 mL, or Non-reversible, if the difference in FEV₁ is < 200 mL or else the difference was ≥ 200 mL and was $< 12\%$ of the pre-salbutamol FEV₁. |
| GOLD Grade 1-4 at Screening |
| <p>Participants will be classified into Global Initiative on Obstructive Lung Disease (GOLD) Grades 1-4 using the post-salbutamol percent predicted FEV₁ assessment at Screening:</p> <ul style="list-style-type: none"> GOLD Grade 1 (Mild): percent predicted FEV₁ $\geq 80\%$ GOLD Grade 2 (Moderate): $50\% \leq$ percent predicted FEV₁ $< 80\%$ GOLD Grade 3 (Severe): $30\% \leq$ percent predicted FEV₁ $< 50\%$ GOLD Grade 4 (Very Severe): percent predicted FEV₁ $< 30\%$ |

10.6.3. Efficacy

| Lung Function |
|---|
| On-Treatment Trough FEV ₁ |
| <p>For Day 28 ad Day 84, trough FEV₁ is defined as the average of the two pre-dose FEV₁ measurements recorded before the morning dose of randomized study medication. If only one pre-dose measurement is recorded, then it will serve as the trough value.</p> <p>For Day 85, trough FEV₁ is defined as the mean of the two planned spirometry FEV₁ measurements. If only one measurement is recorded, then it will serve as the trough value.</p> |
| Post-Treatment Trough FEV ₁ |
| <p>Post-treatment trough FEV₁ is defined as the mean of the two planned spirometry FEV₁ measurements. If only one measurement is recorded, then it will serve as the trough value.</p> |
| Patient-Reported Outcomes |
| St George's Respiratory Questionnaire -- COPD (SGRQ-C) Total Score |
| <p>The SGRQ-C includes 14 questions with a total of 40 items grouped into three domains (Symptoms, Activity, and Impacts).</p> <p>The details for how to score the SGRQ-C are outlined in the SGRQ-C manual (Jones, 2016). This manual includes details on how to handle missing data.</p> <p>The SGRQ-C total score will be converted to an SGRQ score as described in the manual.</p> <p>The change from baseline in total score will be calculated for the converted scores.</p> <p>If the language of the SGRQ-C assessed at a post-randomization visit is different from the language used at Day 1, all SGRQ-C scores at that visit and all subsequent visits will be set to missing.</p> <p>Missing data will be handled as detailed in the SGRQ-C manual (Jones, 2016).</p> |

St George's Respiratory Questionnaire (SGRQ) Responders

SGRQ-C is assessed at randomization and on Days 28 and 84. The SGRQ-C will be scored to produce SGRQ total scores (Jones, 2016). Responder analyses will be based on the resulting SGRQ total scores.

A participant will be considered a responder per the SGRQ if his/her on-treatment SGRQ total score has decreased at least 4 units from the baseline SGRQ total score.

A participant will be considered a non-responder if his/her on-treatment SGRQ total score has decreased by fewer than 4 units, has not changed, or has increased compared to baseline.

The handling of missing data will be detailed in Section 10.7.2.

When determining if a participant was a responder to SGRQ Total Score, the Total Score will be rounded to 1dp prior to assigning the responder status.

COPD Assessment Test (CAT) Score

- The CAT consists of eight items each formatted as a six-point differential scale: 0 (no impact) to 5 (high impact). A CAT score will be calculated by summing the non-missing scores on the eight items with a range from 0 to 40.
- If one item is missing, then the score for that item is set as the average of the non-missing items. If more than one item is missing, then the CAT score will be set to missing.
- If the language of the CAT conducted at a post-baseline visit is different to the language used at Day 1 baseline, the CAT score for that visit and all subsequent visits will be set to missing.

Since the CAT score at screening is a study entry criterion, screening CAT scores will be categorized as less than 10 and 10 or greater, and those categories summarized by treatment group.

COPD Assessment Test (CAT) Responders

A participant will be considered a responder per the CAT if his/her on-treatment CAT total score has decreased at least 2 units from the baseline CAT score.

A participant will be considered a non-responder if his/her on-treatment CAT score has decreased by fewer than 2 units, has not changed, or has increased compared to baseline.

The handling of missing data will be detailed in Section 10.7.2

COPD Exacerbations

- The duration of the exacerbation will be calculated as (exacerbation resolution date or date of death - exacerbation onset date + 1).
- The time to the first on-treatment exacerbation will be calculated as (exacerbation onset date of first on-treatment exacerbation – date of start of treatment + 1).
- For summaries/analyses, participants will be represented from their Day 1 date to the start date of their first event up to and including their treatment stop date+1 day.
- Participants that have not withdrawn from study treatment or experienced the event are censored at their treatment stop date+1 day.
- The event rate for exacerbations will be calculated as the total number of events divided by the total annual participant exposure during the time-period of interest

10.6.4. Safety

| Exposure |
|--|
| Extent of exposure |
| Duration of exposure to randomized treatment will be calculated as: <ul style="list-style-type: none">• Randomized treatment stop date – randomized treatment start date + 1 Duration of post-treatment time spent in the study will be calculated as: <ul style="list-style-type: none">• Study conclusion date – randomized treatment stop date Duration of total time spent in the study will be calculated as: <ul style="list-style-type: none">• Study conclusion date – randomized treatment start date + 1 |
| Exposure Categories |
| The following exposure categories will be derived for summaries of the ITT population: <ul style="list-style-type: none">• ≥1 day• ≥4 weeks• ≥8 weeks• ≥12 weeks• 11 – 13 weeks. |

| Adverse Events | | |
|--|--|---|
| AEs of Special Interest | | |
| <ul style="list-style-type: none"> AESI have been defined as AEs which have specified areas of interest for FF, VI or UMEC or the overall COPD population. The following table presents the AESI groups. Groups which are not SMQs are made up of a selection of preferred terms (PTs) defined by GSK. The complete list, including the PTs which contribute to each of the groups will be provided by Safety and Medical Governance (SMG) using the MedDRA version current at the time of reporting. This will be finalized prior to unblinding. | | |
| AESI Group | AESI Subgroup | Sub-SMQ |
| Cardiovascular effects | Cardiac arrhythmia | Arrhythmia related investigations, signs and symptoms (SMQ) |
| | | Bradyarrhythmia terms, nonspecific (SMQ) |
| | | Conduction defects (SMQ) |
| | | Disorders of sinus node function (SMQ) |
| | | Cardiac arrhythmia terms, nonspecific (SMQ) |
| | | Supraventricular tachyarrhythmias (SMQ) |
| | | Tachyarrhythmia terms, nonspecific (SMQ) |
| | | Ventricular tachyarrhythmias (SMQ) |
| | Cardiac failure (SMQ) | |
| | Ischaemic heart disease (SMQ) | |
| Decreased bone mineral density and associated fractures | Hypertension (SMQ) | |
| | Central nervous system haemorrhages and cerebrovascular conditions (SMQ) | |
| Pneumonia | | Infective pneumonia SMQ (Narrow) |
| Lower Respiratory Tract Infection (LRTI) excluding pneumonia | | |

Bone Fracture Incidents

If a participant suffers fractures in multiple locations with the same date of fracture, this event is considered to be one fracture incident.

In the case of multiple fracture types (traumatic/non-traumatic) contributing to one fracture incident, the worst-case fracture type (non-traumatic) will be assigned to the fracture incident. E.g. if a participant has a traumatic wrist fracture and a non-traumatic foot fracture on the same date, this will be considered to be one non-traumatic fracture incident.

Bone fracture incident event rate will be calculated in the same manner as AE rate.

Association of Chest Imaging (X-ray or CT scan) with Pneumonia Event

A chest X-ray is considered associated with pneumonia if it is performed within -7 to +14 days of the date of onset of pneumonia or the date of resolution, whichever date falls later.

Details of pneumonia events are collected on the Pneumonia Details eCRF page.

Maximum/Minimum Post-Baseline and Worst-Case Post-Baseline

| Definition | Reporting Details |
|--|--|
| Maximum post-baseline (pulse rate, systolic and diastolic blood pressure) | Maximum on-treatment value over all timepoints |
| Minimum post-baseline (diastolic blood pressure) | Minimum on-treatment value over all timepoints |

NOTES:

The treatment phase definitions to be detailed in the full RAP will be used and only assessments within the on-treatment period will be considered in assessment of maximum/minimum/worst-case post-baseline.

Assessment of maximum/minimum/worst-case post-baseline will include data from scheduled, unscheduled and study treatment discontinuation visits (if applicable). Vital signs (pulse rate, systolic blood pressure and diastolic blood pressure) collected at an assessment associated with a pneumonia event will also be included in derivation of a 'maximum/minimum post-baseline' assessment.

10.7. Appendix 7: Reporting Standards for Missing Data

10.7.1. Premature Withdrawals

| Element | Reporting Detail |
|---------|--|
| General | <p>A participant is considered to have completed the study if s/he has completed all phases of the study including pre-screening, screening, run-in, the randomised treatment phase, and the safety follow-up.</p> <p>Withdrawn participants will not be replaced in the study.</p> <p>All available data from participants who are withdrawn from the study will be listed and all available planned data will be included in summary tables and figures, unless otherwise specified.</p> |

10.7.2. Handling of Missing Data

| Element | Reporting Detail |
|----------|--|
| General | <p>Missing data occur when any requested data are not provided, leading to blank fields on the collection instrument</p> <p>These data will be indicated using a blank in data listings, unless all data for a specific visit are missing, in which case the data is excluded from the table.</p> <p>Answers such as “Not applicable” and “Not evaluable” are not considered to be missing data and should be displayed as such.</p> |
| Outliers | Any participants excluded from the summaries and/or statistical analyses will be documented along with the reason for exclusion in the clinical study report. |

10.7.2.1. Handling of Missing Dates

| Element | Reporting Detail |
|--|---|
| General | Partial dates will be displayed as captured in data listings. |
| Adverse Events, exacerbations, and pneumonia | <p><u>Missing start day:</u> The first of the month will be used unless it falls before the start date of randomized study treatment, in which case the randomized study treatment start date will be used and hence the event will be considered on-treatment, as defined in Section 10.4 (Appendix 4: Study Phases and Treatment-Emergent Adverse Events).</p> <p><u>Missing stop day:</u> The last day of the month will be used unless it falls after the stop date of randomized study treatment, in which case the randomized study treatment stop date will be used.</p> <p>Completely missing start or end dates will remain missing, with no imputation applied. Consequently, time to onset and duration of such events will also be missing.</p> |

10.7.2.2. Handling of Partial Dates

The eCRF allows partial dates (i.e., only month and year) to be recorded for AEs, concomitant medications, and exacerbation start and end dates; that is, the day of the month may be missing. In such cases, the following conventions will be applied for calculating the time to onset and the duration of the event:

| Element | Reporting Detail |
|--|--|
| Concomitant medications | <p>For the purposes of assigning a treatment period in which to report a concomitant medication, partial administration start and stop dates recorded in the CRF will be imputed using the following conventions:</p> <p>If the partial date is a start date, 1 will be used for missing days and 'Jan' will be used for missing months.</p> <p>If the partial date is a stop date, either 28, 29, 30, or 31 (depending on the month and year) will be used for missing days and 'Dec' will be used for missing months.</p> <p>The recorded partial date will be displayed in any relevant listings.</p> |
| Adverse events, exacerbations, and pneumonia | <p>Any partial dates for adverse events and exacerbations will be raised to data management. If the full date cannot be ascertained, the following assumptions will be made.</p> <p>If the partial date is an onset date, 1 will be used for missing days and 'Jan' will be used for the month. However, if these substitutions result in an onset date prior to Day 1 and, based on available information, the event could possibly have occurred during treatment, then the Day 1 date will be assumed to be the onset date. The event will then be considered to have started on treatment.</p> |

| Element | Reporting Detail |
|---------|---|
| | <p>If the partial date is a resolution date, either 28, 29, 30, or 31 (depending on the month and year) will be used for missing days and 'Dec' will be used for missing months.</p> <p>The recorded partial date will be displayed in any relevant listings.</p> |

10.7.2.3. Handling of Missing Data for Statistical Analysis

| Element | Reporting Detail |
|-----------|--|
| Responder | <ul style="list-style-type: none"> • Participants with a missing baseline will have responder status as missing • Participants with missing post-baseline data at a time point and a subsequent non-missing assessment will not be considered a responder or non-responder but will be left as missing at that time point • Participants with a missing post-baseline assessment with no subsequent non-missing assessments will be considered a non-responder for that and all subsequent time points. • Participants with a baseline but all missing post-baseline data will be considered a non-responder at all time points. |

10.8. Appendix 8: Abbreviations & Trade Marks

10.8.1. Abbreviations

| Abbreviation | Description |
|------------------|---|
| ADaM | Analysis Data Model |
| AE | Adverse event |
| AESI | Adverse events of special interest |
| ASE | All subjects enrolled |
| ATC | Anatomical therapeutic chemical |
| CAT | COPD Assessment Test |
| CDISC | Clinical Data Interchange Standards Consortium |
| CI | Confidence interval |
| COPD | Chronic obstructive pulmonary disease |
| CSV | Comma-separated values |
| CT | Computerized (axial) tomography |
| DR | Dry run |
| eCRF | Electronic case record form |
| ECG | Electrocardiogram |
| EudraCT | European Union Drug Regulating Authorities Clinical Trials |
| FDA | Food and Drug Administration |
| FDAAA | Food and Drug Administration Clinical Results Disclosure Requirements |
| FEV ₁ | Forced expiratory flow in 1 second |
| FF | Fluticasone furoate |
| GOLD | Global Initiative on Obstructive Lung Disease |
| GSK | GlaxoSmithKline |
| HARP | Harmonised Analysis and Reporting Platform |
| ICH | International Conference on Harmonization |
| ICS | Inhaled corticosteroid |
| IDSL | Integrated Data Standards Library |
| ITT | Intent-to-Treat |
| IWRS | Interactive web response system |
| KR | Kenward and Roger |
| LABA | Long-acting beta ₂ agonist |
| LAMA | Long-acting muscarinic antagonist |
| LS | Least squares |
| LRTI | Lower respiratory tract infection |
| MAR | Missing at random |
| mcg | microgram |
| MedDRA | Medical Dictionary for Regulatory Activities |
| mL | Milliliter |
| PDE4 | Phosphodiesterase type 4 |
| PDSF | Protocol deviation specification form |
| QD | <i>Quaque die</i> (once daily) |
| R&D | Research and Development |
| RAP | Reporting and Analysis Plan |

| Abbreviation | Description |
|--------------|--|
| RMC | Respiratory Medication Classification |
| RUCAM | Roussel Uclaf Causality Assessment Method |
| SAC | Statistical analysis complete |
| SAE | Serious adverse event |
| SDTM | Study Data Tabulation Model |
| SGRQ | St George's Respiratory Questionnaire |
| SGRQ-C | St George's Respiratory Questionnaire - COPD |
| SI | System Independent |
| SRT | Safety review team |
| SOC | System organ class |
| UMEC | Umeclidinium |
| VI | Vilanterol |

10.8.2. Trademarks

| Trademarks of the GlaxoSmithKline Group of Companies |
|--|
| ELLIPTA |

| Trademarks not owned by the GlaxoSmithKline Group of Companies |
|--|
| SAS |
| HandiHaler |

10.9. Appendix 9: List of Data Displays

10.9.1. Data Display Numbering

The following numbering will be applied for RAP generated displays:

| Section | Tables | Figures |
|------------------|-------------|-------------|
| Study Population | 1.1 to 1.37 | 1.1 to 1.2 |
| Efficacy | 2.1 to 2.23 | 2.1 to 2.10 |
| Safety | 3.1 to 3.34 | 3.1 |
| Section | Listings | |
| ICH Listings | 1 to 21 | |
| Other Listings | 22 to 48 | |

10.9.2. Mock Example Shell Referencing

Non IDSL specifications will be referenced as indicated and, if required, example mock-up displays provided in Section 10.10 (Appendix 10: Example Mock Shells for Data Displays). Output files in the following sections that use standard IDSL examples are identified in the “IDSL / Example Shell” column by their IDSL example format code.

| Section | Figure | Table | Listing |
|------------------|---------|---------|---------|
| Study Population | POP_Fnn | POP_Tnn | POP_Lnn |
| Efficacy | EFF_Fnn | EFF_Tnn | EFF_Lnn |
| Safety | SAF_Fnn | SAF_Tnn | SAF_Lnn |

10.9.3. Deliverables

| Delivery | Description |
|----------|-------------------------------------|
| DR | Dry run prior to source data lock |
| SAC | Final statistical analysis complete |
| Post-SAC | One week after SAC |

10.9.4. Study Population Tables

| Study Population Tables | | | | | |
|---|------------|----------------------|--|--|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Participant Disposition | | | | | |
| 1.1. | ASE | POP_T01 | Summary of Subject Populations and Reasons for Screen/Run-in Failure | | DR, SAC |
| 1.2. | ITT | POP_T02 | Summary of Attendance at Each Visit | | DR, SAC |
| 1.3. | ITT | SD1 | Summary of Treatment Status and Reasons for Discontinuation of Study Treatment | | DR, SAC |
| 1.4. | ITT | ES1 | Summary of Study Status and Reasons for Study Withdrawal | | DR, SAC |
| 1.5. | ASE | DM11 | Summary of Age Ranges | Use age ranges in Section 10.6.2 . | DR, SAC |
| 1.6. | ASE | NS1 | Summary of Number of Subjects Enrolled by Geographical Region, Country and Center | | DR, SAC |
| 1.7. | ITT | NS1 | Summary of Number of Subjects Enrolled by Geographical Region, Country, and Center | | DR, SAC |
| 1.8. | ASE | IE1 | Summary of Inclusion/Exclusion Criteria Deviations for Screen Failures | | DR, SAC |
| 1.9. | ITT | IE1 | Summary of Inclusion/Exclusion Criteria Deviations | | DR, SAC |
| Protocol Deviation | | | | | |
| 1.10. | ITT | POP_T03 | Summary of Important Protocol Deviations | | DR, SAC |
| Demographic and Baseline Characteristics | | | | | |
| 1.11. | ITT | DM1 | Summary of Demographic Characteristics | Add BMI to IDSL standard | DR, SAC |
| 1.12. | ITT | DM1 | Summary of Demographic Characteristics by Country | | DR, SAC |
| 1.13. | ITT | DM5 | Summary of Race and Racial Combinations | | DR, SAC |

| Study Population Tables | | | | | |
|-------------------------|------------|-------------------------|--|---|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| 1.14. | ITT | DM6 | Summary of Race and Racial Combinations Details | | DR, SAC |
| Medical Conditions | | | | | |
| 1.15. | ITT | MH4 | Summary of Current Medical Conditions | Use classes and conditions as collected on eCRF | DR, SAC |
| 1.16. | ITT | MH4 | Summary of Past Medical Conditions | Use classes and conditions as collected on eCRF | DR, SAC |
| 1.17. | ITT | POP_T04 | Summary of Cardiovascular Risk Factors | | DR, SAC |
| 1.18. | ITT | POP_T05 | Summary of Family History of Cardiovascular Risk Factors | | DR, SAC |
| Disease Characteristics | | | | | |
| 1.19. | ITT | POP_T06 | Summary of Smoking History at Screening | | DR, SAC |
| 1.20. | ITT | POP_T07 | Summary of Smoking Status at Screening | | DR, SAC |
| 1.21. | ITT | POP_T08 | Summary of COPD History at Screening | | DR, SAC |
| 1.22. | ITT | POP_T09 | Summary of COPD Exacerbation History at Screening | | DR, SAC |
| 1.23. | ITT | POP_T10 | Summary of Screening Lung Function | | DR, SAC |
| 1.24. | ITT | POP_T10 | Summary of Screening Lung Function by Country | | DR, SAC |
| 1.25. | ITT | POP_T11 | Summary of Reversibility and GOLD Grade (1 – 4) at Screening | | DR, SAC |

| Study Population Tables | | | | | |
|-----------------------------------|------------|-------------------------|---|--|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| 1.26. | ITT | POP_T12 | Summary of CAT Score and CAT Category at Screening | | DR, SAC |
| Prior and Concomitant Medications | | | | | |
| 1.27. | ITT | POP_T13 | Summary of COPD Concomitant Medications Taken Prior to Screening | Include total column; use Respiratory Medicines Classification (RMC) level 1 as top-level classification; see MID200812 Table 1.34 (| DR, SAC |
| 1.28. | ITT | POP_T14 | Summary of COPD Concomitant Medication Combinations Taken at Screening | Include total column; use RMC as top-level classification; see CTT1166855 Table 1.67 (in SAFIRE) | DR, SAC |
| 1.29. | ITT | POP_T13 | Summary of COPD Concomitant Medications Taken during Run-in for Reasons other than an Exacerbation | Include total column; use RMC as top-level classification; see MID200812 Table 1.34 | DR, SAC |
| 1.30. | ITT | POP_T15 | Summary of On-Treatment COPD Concomitant Medications Taken for Reasons other than an Exacerbation | Include total column; use RMC as top-level classification; see MID200812 Table 1.35 | DR, SAC |
| 1.31. | ITT | POP_T15 | Summary of Post-treatment COPD Concomitant Medications Taken for Reasons other than an Exacerbation | Include total column; use RMC as top-level classification; see MID200812 Table 1.36 | DR, SAC |

| Study Population Tables | | | | | |
|-------------------------|------------|-------------------------|---|---|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| 1.32. | ITT | POP_T13 | Summary of Concomitant Medications Taken during Run-in for an Exacerbation | Include total column; use RMC as top-level classification; see MID200812 Table 1.37 | DR, SAC |
| 1.33. | ITT | POP_T15 | Summary of On-Treatment Concomitant Medications Taken for an Exacerbation | Include total column; use RMC as top-level classification; see MID200812 Table 1.38 | DR, SAC |
| 1.34. | ITT | POP_T15 | Summary of Post-Treatment Concomitant Medications Taken for an Exacerbation | Include total column; use RMC as top-level classification; see MID200812 Table 1.39 | DR, SAC |
| 1.35. | ITT | POP_T16 | Summary of On-Treatment Non-COPD Concomitant Medications | Include total column; use ATC level 1 as top-level classification; see MID200812 Table 1.40 | DR, SAC |
| 1.36. | ITT | POP_T16 | Summary of Post-Treatment Non-COPD Concomitant Medications | Include total column; use ATC level 1 as top-level classification; see MID200812 Table 1.41 | DR, SAC |
| Treatment Compliance | | | | | |
| 1.37. | ITT | POP_T17 | Summary of Treatment Compliance (%) | See CTT116855 Table 1.75 (in SAFIRE) | DR, SAC |

10.9.5. Study Population Figures

| Study Population Tables | | | | | |
|-------------------------|------------|-------------------------|--|-------------------|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Participant Disposition | | | | | |
| 1.1. | ITT | POP_F01 | Kaplan-Meier Plot of Time to Study Withdrawal | | DR, SAC |
| 1.2. | ITT | POP_F01 | Kaplan-Meier Plot of Time to Study Treatment Discontinuation | | DR, SAC |

10.9.6. Efficacy Tables

| Efficacy: Tables | | | | | |
|-------------------|------------|-------------------------|--|---|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Spirometry | | | | | |
| 2.1. | ITT | EFF_T01 | Summary of Baseline FEV ₁ (L) | | DR, SAC |
| 2.2. | ITT | EFF_T01 | Summary of Baseline FEV ₁ (L) by Country | | DR, SAC |
| 2.3. | ITT | EFF_T02 | Summary of Trough FEV ₁ (L) - Hypothetical Estimand | Includes Days 28, 84, and 85 | DR, SAC |
| 2.4. | ITT | EFF_T02 | Summary of Trough FEV ₁ (L) – Treatment Policy Estimand | Only if overall rate of discontinuation from study treatment is >5% | DR, SAC |
| 2.5. | ITT | EFF_T02 | Summary of Trough FEV ₁ (L) by Country – Hypothetical Estimand | Includes Days 28, 84, and 85 | DR, SAC |
| 2.6. | ITT | EFF_T02 | Summary of Trough FEV ₁ (L) by Country – Treatment Policy Estimand | Only if overall rate of discontinuation from study treatment is >5% | DR, SAC |
| 2.7. | ITT | EFF_T03 | Analysis of Trough FEV ₁ (L) - Hypothetical Estimand | Includes Days 28, 84, and 85 | DR, SAC |
| 2.8. | ITT | EFF_T03 | Analysis of Trough FEV ₁ (L) – Treatment Policy Estimand | Only if overall rate of discontinuation from study treatment is >5% | DR, SAC |
| 2.9. | ITT | EFF_T04 | Significance Levels for Interactions of Treatment with Geographical Region and Baseline FEV ₁ for Analysis of Trough FEV ₁ (L) on Day 85 - Hypothetical Estimand | Includes Days 28, 84, and 85 | DR, SAC |
| 2.10. | ITT | EFF_T04 | Significance Levels for Interactions of Treatment with Geographical Region and Baseline FEV ₁ for Analysis of Trough FEV ₁ (L) on Day 85 - Treatment Policy Estimand | Only if overall rate of discontinuation from study treatment is >5% | DR, SAC |

| Efficacy: Tables | | | | | |
|---------------------------|------------|-------------------------|--|---|--------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| 2.11. | ITT | EFF_T05 | Tipping Point Sensitivity Analysis: Two-Sided P-values after Imputing Varying Day 85 Mean Change from Baseline Trough FEV ₁ (L) – Treatment Policy Estimand | Only if overall rate of discontinuation from study treatment is >5%. Add * before each p-value that is less than 0.050 | DR, Post-SAC |
| SGRQ | | | | | |
| 2.12. | ITT | EFF_T06 | Summary of Baseline SGRQ Total and Domain Scores | | DR, SAC |
| 2.13. | ITT | EFF_T02 | Summary of SGRQ Total and Domain Scores – Hypothetical Estimand | | DR, SAC |
| 2.14. | ITT | EFF_T03 | Analysis of SGRQ Total Score – Hypothetical Estimand | | DR, SAC |
| 2.15. | ITT | EFF_T07 | Summary and Analysis of Proportion of Responders as Defined by SGRQ Total Score – Hypothetical Estimand | | DR, SAC |
| CAT Scores | | | | | |
| 2.16. | ITT | EFF_T06 | Summary of Baseline CAT Score | | DR, SAC |
| 2.17. | ITT | EFF_T02 | Summary of CAT Score – Hypothetical Estimand | | DR, SAC |
| 2.18. | ITT | EFF_T03 | Analysis of CAT Score – Hypothetical Estimand | | DR, SAC |
| 2.19. | ITT | EFF_T07 | Summary and Analysis of Proportion of Responders as Defined by CAT Score – Hypothetical Estimand | | DR, SAC |
| COPD Exacerbations | | | | | |
| 2.20. | ITT | EFF_T08 | Summary of On-Treatment COPD Exacerbations | | DR, SAC |
| 2.21. | ITT | EFF_T09 | Summary of On-Treatment Details of COPD Exacerbations | | DR, SAC |
| 2.22. | ITT | EFF_T08 | Summary of Post-Treatment COPD Exacerbations | | DR, SAC |
| 2.23. | ITT | EFF_T09 | Summary of Post-Treatment Details of COPD Exacerbations | | DR, SAC |

10.9.7. Efficacy Figures

| Efficacy: Figures | | | | | |
|--------------------------|-------------------|---------------------------------|---|--|--------------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Spirometry | | | | | |
| 2.1. | ITT | EFF_F01 | Box Plot of Change from Baseline in Trough FEV ₁ (L) on Day 85 – Hypothetical Estimand | Might be able to squeeze all three timepoints onto one graph – would be six box plots. | DR, SAC |
| 2.2. | ITT | EFF_F02 | Empirical Distribution Function Plot of Change from Baseline in Trough FEV ₁ (L) on Day 85 – Hypothetical Estimand | | DR, SAC |
| 2.3. | ITT | EFF_F03 | Least Squares Mean (95% CI) Change from Baseline in Trough FEV ₁ (L) – Hypothetical Estimand | | DR, SAC |
| 2.4. | ITT | EFF_F01 | Box Plot of Change from Baseline in Trough FEV ₁ (L) on Day 85 – Treatment Policy Estimand | Might be able to squeeze all three timepoints onto one graph – would be six box plots. | DR, SAC |
| 2.5. | ITT | EFF_F02 | Empirical Distribution Function Plot of Change from Baseline in Trough FEV ₁ (L) on Day 85 – Treatment Policy Estimand | | DR, SAC |
| 2.6. | ITT | EFF_F03 | Least Squares Mean (95% CI) Change from Baseline in Trough FEV ₁ (L) – Treatment Policy Estimand | | DR, SAC |
| SGRQ | | | | | |
| 2.7. | ITT | EFF_F02 | Empirical Distribution Function Plot of Change from Baseline in SGRQ Total Score on Day 84 – Hypothetical Estimand | | DR, SAC |
| 2.8. | ITT | EFF_F03 | Least Squares Mean (95% CI) Change from Baseline in SGRQ Total Score – Hypothetical Estimand | | DR, SAC |
| CAT Score | | | | | |
| 2.9. | ITT | EFF_F02 | Empirical Distribution Function Plot of Change from Baseline in CAT Score on Day 84 – Hypothetical Estimand | | DR, SAC |
| 2.10. | ITT | EFF_F03 | Least Squares Mean (95% CI) Change from Baseline in CAT Score – Hypothetical Estimand | | DR, SAC |

10.9.8. Safety Tables

| Safety: Tables | | | | | |
|---|-------------------|---------------------------------|---|--|--------------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Exposure | | | | | |
| 3.1. | ITT | SAF_T01 | Summary of Treatment Exposure | | DR, SAC |
| Adverse Events (AEs) | | | | | |
| 3.2. | ITT | AE13 | Overview of On-Treatment Adverse Events | | DR, SAC |
| 3.3. | ITT | AE1 | Summary of On-Treatment Adverse Events | | DR, SAC |
| 3.4. | ITT | AE1 | Summary of On-Treatment Adverse Events by Country | | DR, SAC |
| 3.5. | ITT | AE1 | Summary of Post-Treatment Adverse Events | | DR, SAC |
| 3.6. | ITT | AE1 | Summary of On-Treatment Drug-Related Adverse Events | | DR, SAC |
| 3.7. | ITT | AE15 | Summary of On-Treatment Common ($\geq 3\%$ in Either Treatment Group) Non-serious Adverse Events by System Organ Class and Preferred Term (Number of Subjects and Occurrences) | | DR, SAC |
| 3.8. | ITT | AE3 | Summary of the 10 Most Frequent On-treatment Adverse Events in each Treatment Group | For each treatment group, use number of events without tie-breaker to determine the 10 most frequent AEs | DR, SAC |
| 3.9. | ITT | AE5A | Summary of On-Treatment Adverse Events by System Organ Class and Maximum Intensity | | DR, SAC |
| 3.10. | ASE | AE2 | Relationship of Adverse Event System Organ Class, Preferred Term and Verbatim Text | | DR, SAC |
| Serious and Other Significant Adverse Events | | | | | |
| 3.11. | ASE | AE1 | Summary of Pre-Treatment Serious Adverse Events | | DR, SAC |
| 3.12. | ITT | AE1 | Summary of Pre-Treatment Serious Adverse Events | | DR, SAC |
| 3.13. | ITT | AE1 | Summary of On-Treatment Serious Adverse Events | | DR, SAC |
| 3.14. | ITT | AE1 | Summary of On-Treatment Fatal Serious Adverse Events | | DR, SAC |

| Safety: Tables | | | | | |
|-----------------------|------------|-------------------------|---|-------------------|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| 3.15. | ITT | AE1 | Summary of Pre-Treatment Serious Adverse Events Leading to Withdrawal from Study | | DR, SAC |
| 3.16. | ITT | AE1 | Summary of On-Treatment Adverse Events Leading to Permanent Discontinuation of Study Treatment or Withdrawal from Study | | DR, SAC |
| 3.17. | ITT | AE1 | Summary of Serious Adverse Events (Serious, Drug-Related Serious, Fatal and Drug-Related Serious) by System Organ Class and Preferred Term (Number of Subjects and Occurrences) | | DR, SAC |
| 3.18. | ITT | AE1 | Summary of On-Treatment Drug-Related Serious Adverse Events | | DR, SAC |
| 3.19. | ITT | AE1 | Summary of On-Treatment Drug-Related Fatal Serious Adverse Events | | DR, SAC |
| 3.20. | ITT | AE1 | Summary of On-Treatment Adverse Events of Special Interest | | DR, SAC |
| 3.21. | ITT | AE1 | Summary of On-Treatment Serious Adverse Events of Special Interest | | DR, SAC |
| 3.22. | ITT | AE1 | Summary of Post-Treatment Serious Adverse Events | | DR, SAC |
| 3.23. | ITT | AE1 | Summary of Post-Treatment Serious Fatal Adverse Events | | DR, SAC |
| Pneumonia | | | | | |
| 3.24. | ITT | SAF_T02 | Summary of On-Treatment Pneumonia Incidence | | DR, SAC |
| 3.25. | ITT | SAF_T03 | Summary of On-Treatment Details of Pneumonia | | DR, SAC |
| 3.26. | ITT | SAF_T02 | Summary of Post-Treatment Pneumonia Incidence | | DR, SAC |
| 3.27. | ITT | SAF_T03 | Summary of Post-Treatment Details of Pneumonia | | DR, SAC |
| Bone fractures | | | | | |
| 3.28. | ITT | SAF_T04 | Summary of On-Treatment Bone Fractures | | DR, SAC |
| 3.29. | ITT | SAF_T04 | Summary of Post-Treatment Bone Fractures | | DR, SAC |

| Safety: Tables | | | | | |
|----------------------|------------|-------------------------|---|--------------------------------|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Chest imaging | | | | | |
| 3.30. | ITT | SAF_T05 | Summary of Chest Imaging (X-Ray or CT Scan) | combine on- and post-treatment | DR, SAC |
| Labs | | | | | |
| 3.31. | ITT | SAF_T06 | Summary of Blood Chemistry Results at Screening | | DR, SAC |
| 3.32. | ITT | SAF_T06 | Summary of Hematology Results at Screening | | DR, SAC |
| Vital signs | | | | | |
| 3.33. | ITT | SAF_T07 | Summary of Vital Signs | | DR, SAC |
| 3.34. | ITT | SAF_T07 | Summary of Change from Baseline Vital Signs | | DR, SAC |
| ECGs | | | | | |
| 3.35. | ITT | SAF_T08 | Summary of ECG Findings at Screening | | DR, SAC |

10.9.9. Safety Figures

| Safety: Figures | | | | | |
|-----------------|------------|-------------------------|-------------------------------|-------------------|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Exposure | | | | | |
| 3.1. | ITT | SAF_F01 | Summary of Treatment Exposure | | DR, SAC |

10.9.10. ICH Listings

| ICH: Listings | | | | | |
|---|------------|-------------------------|--|-------------------|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Subject Disposition | | | | | |
| 1. | ASE | ES7 | Listing of Reasons for Screening / Run-in Failure | | DR, SAC |
| 2. | ITT | TA1 | Listing of Planned and Actual Treatments | | DR, SAC |
| 3. | ITT | SD2 | Listing of Reasons for Study Treatment Discontinuation | | DR, SAC |
| 4. | ITT | ES2 | Listing of Reasons for Study Withdrawal | | DR, SAC |
| 5. | ITT | BL1 | Listing of Subjects for Whom the Treatment Blind was Broken | | DR, SAC |
| Protocol Deviations | | | | | |
| 6. | ITT | DV2 | Listing of Important Protocol Deviations | | DR, SAC |
| 7. | ASE | IE3 | Listing of Subjects with Inclusion/Exclusion Criteria Deviations for Screen Failures | | DR, SAC |
| 8. | ITT | IE3 | Listing of Subjects with Inclusion/Exclusion Criteria Deviations | | |
| Demographic and Baseline Characteristics | | | | | |
| 9. | ITT | DM2 | Listing of Demographic Characteristics | | DR, SAC |
| 10. | ITT | DM9 | Listing of Race | | DR, SAC |
| Prior and Concomitant Medications | | | | | |
| 11. | ITT | CM3 | Listing of Concomitant COPD Medications | | DR, SAC |
| 12. | ITT | CM3 | Listing of Concomitant Non-COPD Medications | | DR, SAC |
| Exposure | | | | | |
| 13. | ITT | SAF_L01 | Listing of Exposure Data | | DR, SAC |

| ICH: Listings | | | | | |
|---|------------|-------------------------|--|-------------------|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Adverse Events | | | | | |
| 14. | ASE | AE8 | Listing of All Adverse Events | | DR, SAC |
| 15. | ASE | AE7 | Listing of Subject Numbers for Individual Adverse Events | | DR, SAC |
| Serious and Other Significant Adverse Events | | | | | |
| 16. | ASE | AE8 | Listing of Fatal Serious Adverse Events | | DR, SAC |
| 17. | ASE | AE8 | Listing of Non-Fatal Serious Adverse Events | | DR, SAC |
| 18. | ASE | AE14 | Listing of Reasons for Considering as a Serious Adverse Event | | DR, SAC |
| 19. | ASE | AE8 | Listing of Adverse Events Leading to Withdrawal from Study / Permanent Discontinuation of Study Treatment | | DR, SAC |
| 20. | ITT | AE8 | Listing of Adverse Events of Special Interest | | DR, SAC |
| Vital signs | | | | | |
| 21. | ITT | VS4 | Listing of All Vital Signs Values | | DR, SAC |

10.9.11. Non-ICH Listings

| Non-ICH: Listings | | | | | |
|---------------------------|------------|-------------------------|--|---|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Study population | | | | | |
| 22. | ASE | POP_L18 | Listing of Unique Subject ID vs. Study Subject ID | | DR, SAC |
| 23. | ASE | POP_L03 | Listing of Study Treatment Misallocations | | DR, SAC |
| 24. | ITT | POP_L04 | Listing of Screening Lung Function, Reversibility Status, and GOLD Grade | | DR, SAC |
| 25. | ITT | POP_L05 | Listing of Medical Conditions | | DR, SAC |
| 26. | ITT | POP_L06 | Listing of Family History of Cardiovascular Risk Factors | | DR, SAC |
| 27. | ITT | POP_L07 | Listing of COPD Duration and Exacerbation History | | DR, SAC |
| 28. | ITT | POP_L08 | Listing of Smoking History and Smoking Status | | DR, SAC |
| 29. | ITT | POP_L09 | Relationship between ATC Level 1, Ingredient, and Verbatim Text for Non-COPD Medications | | DR, SAC |
| 30. | ITT | POP_L10 | Listing of Treatment Compliance Data | Including both run-in and on-treatment. | DR, SAC |
| Spirometry | | | | | |
| 31. | ITT | EFF_L01 | Listing of Raw FEV ₁ (L) and FVC (L) Data | | DR, SAC |
| COPD exacerbations | | | | | |
| 32. | ITT | EFF_L02 | Listing of COPD Exacerbations | | DR, SAC |
| SGRQ | | | | | |
| 33. | ITT | EFF_L03 | Listing of SGRQ Scores | Include screening scores | DR, SAC |
| CAT | | | | | |
| 34. | ITT | EFF_L04 | Listing of CAT Scores | Include screening scores | DR, SAC |

| Non-ICH: Listings | | | | | |
|---|------------|-------------------------|--|-------------------|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Adverse events | | | | | |
| 35. | ITT | SAF_L02 | Listing of AE Terms of Special Interest | | DR, SAC |
| 36. | ITT | AE7 | Listing of Subject Numbers for On-Treatment Adverse Events of Special Interest | | DR, SAC |
| Pneumonia incidence | | | | | |
| 37. | ITT | SAF_L03 | Listing of Pneumonia Data | | DR, SAC |
| Bone fractures | | | | | |
| 38. | ITT | SAF_L04 | Listing of Bone Fracture Data | | DR, SAC |
| Chest imaging (X-ray or CT scan) | | | | | |
| 39. | ITT | SAF_L05 | Listing of Chest Imaging (X-ray or CT scan) Data | | DR, SAC |
| Liver events | | | | | |
| 40. | ITT | SAF_L06 | Listing of Liver Event Results and Time of Event Relative to Treatment | | DR, SAC |
| 41. | ITT | SAF_L07 | Listing of Medical Conditions for Subjects with Liver Stopping Events | | DR, SAC |
| 42. | ITT | SAF_L08 | Listing of Substance Use for Subjects with Liver Stopping Events | | DR, SAC |
| 43. | ITT | SAF_L09 | Listing of Liver Event Information for RUCAM Scores | | DR, SAC |
| 44. | ITT | SAF_L10 | Listing of Liver Biopsy Details | | DR, SAC |
| 45. | ITT | SAF_L11 | Listing of Liver Imaging Details | | DR, SAC |
| Inhaler malfunctions | | | | | |
| 46. | ITT | SAF_L12 | Listing of Inhaler Malfunctions | | DR, SAC |

| Non-ICH: Listings | | | | | |
|-------------------------|------------|-------------------------|---|--|-------------|
| No. | Population | IDSL / Example Shell | Title | Programming Notes | Deliverable |
| Hepatitis B and C tests | | | | | |
| 47. | ITT | SAF_L14 | Listing of Hepatitis B and C Test Results | Hep B & C test results are included in datasets with lab data from vendor. | DR, SAC |
| ECG | | | | | |
| 48. | ITT | SAF_L15 | Listing of ECG Data | | DR, SAC |
| Laboratory data | | | | | |
| 49. | ITT | LB14 | Listing of Laboratory Data with Character Results | | DR, SAC |

10.10. Appendix 10: Example Mock Shells for Data Displays**10.10.1. Tables**

Example: POP_T01
 Protocol: 207626
 Population: All Subjects Enrolled

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Table 1.1

Summary of Subject Populations and Reasons for Screen/Run-in Failure

| Population | FF/UMEC/VI 100/62.5/25 | TIO 18 | Total |
|---|---------------------------|--------|------------|
| All subjects enrolled | | | xxx |
| Pre-screen failure | | | xxx (xxx%) |
| Attended screening visit | | | xxx (xxx%) |
| Screen failure [1] | | | xxx (xxx%) |
| Primary reason for screen failure [1] | | | |
| Did not meet inclusion/exclusion criteria | | | xxx (xxx%) |
| Serious adverse event | | | xxx (xxx%) |
| Investigator discretion | | | xxx (xxx%) |
| Withdrew consent | | | xxx (xxx%) |
| Unknown | | | xxx (xxx%) |
| Run-in failure | | | xxx |
| Primary reason for run-in failure [2] | | | |
| Serious adverse event | | | xxx (xxx%) |
| Protocol deviation | | | xxx (xxx%) |

| | | |
|------------------------------------|-----|--------|
| Study closed / terminated | xxx | (xxx%) |
| Lost to follow-up | xxx | (xxx%) |
| Investigator discretion | xxx | (xxx%) |
| Withdrew consent | xxx | (xxx%) |
| Did not meet continuation criteria | xxx | (xxx%) |

| | | | |
|-----------------|------------|------------|------------|
| Randomized | xxx | xxx | xxx |
| Intent-to-Treat | xxx (xxx%) | xxx (xxx%) | xxx (xxx%) |

- [1] Percentages are based on the number of subjects who attended the screening visit.
[2] Percentages are based on the number of subjects who were considered run-in failures.

<user ID: pathname datestamp timestamp>

Example: POP_T02
Protocol: 207626
Population: Intent-to-Treat

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Table 1.2
Summary of Attendance at Each Visit

| Visit | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 N=xxx) | Total N=xxx) |
|-----------------------|--------------------------------------|------------------|-----------------|
| Pre-Screening | xxx (xxx%) | xxx (xxx%) | xxx (xxx%) |
| Screening / Run-in | xxx (xxx%) | xxx (xxx%) | xxx (xxx%) |
| Day 1 (Randomization) | xxx (xxx%) | xxx (xxx%) | xxx (xxx%) |
| Day 28 | xxx (xxx%) | xxx (xxx%) | xxx (xxx%) |
| Day 84 | xxx (xxx%) | xxx (xxx%) | xxx (xxx%) |
| Day 85 | xxx (xxx%) | xxx (xxx%) | xxx (xxx%) |
| Follow-up | xxx (xxx%) | xxx (xxx%) | xxx (xxx%) |

Note: The pre-screening and screening visits may occur on the same day.

<user ID: pathname datestamp timestamp>

Example: POP_T03
Protocol: 207626
Population: Intent-to-Treat

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Table 1.10
Summary of Important Protocol Deviations

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|--|--------------------------------------|-------------------|------------------|
| Any important protocol deviations | xxx (xx%) | xxx (xx%) | xxx (xx%) |
| Informed consent | xx (xx%) | xx (xx%) | xx (xx%) |
| Eligibility criteria not met | xx (xx%) | xx (xx%) | xx (xx%) |
| Not withdrawn after developing withdrawal criteria | xx (xx%) | xx (xx%) | xx (xx%) |
| Excluded medication | xx (xx%) | xx (xx%) | xx (xx%) |
| Received incorrect treatment | xx (xx%) | xx (xx%) | xx (xx%) |

Note: A subject may have more than one deviation.
<user ID: pathname datestamp timestamp>

Example: POP_T04
 Protocol: 207626
 Population: Intent-to-Treat

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Table 1.17
 Summary of Cardiovascular Risk Factors

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|---------------------------------------|--------------------------------------|-------------------|------------------|
| Any cardiovascular risk factor | | | |
| n | xxx | xxx | Xxx |
| Yes | xx (xx%) | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) | xx (xx%) |
| Number of cardiovascular risk factors | | | |
| n | xxx | xxx | Xxx |
| 0 | xx (xx%) | xx (xx%) | xx (xx%) |
| 1 | xx (xx%) | xx (xx%) | xx (xx%) |
| >=2 | xx (xx%) | xx (xx%) | xx (xx%) |

Note: Cardiovascular risk factors include past or current medical conditions recorded at screening.
 <user ID: pathname datestamp timestamp>

Example: POP_T04
Protocol: 207626
Population: Intent-to-Treat

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Table 1.17
Summary of Cardiovascular Risk Factors

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|-----------------------------|--------------------------------------|-------------------|------------------|
| Cardiovascular risk factors | | | |
| Angina pectoris | xx (xx%) | xx (xx%) | xx (xx%) |
| Arrhythmia | xx (xx%) | xx (xx%) | xx (xx%) |
| Cerebrovascular accident | xx (xx%) | xx (xx%) | xx (xx%) |
| Congestive heart failure | xx (xx%) | xx (xx%) | xx (xx%) |
| Coronary artery disease | xx (xx%) | xx (xx%) | xx (xx%) |
| Diabetes mellitus | xx (xx%) | xx (xx%) | xx (xx%) |
| Hypercholesterolemia | xx (xx%) | xx (xx%) | xx (xx%) |
| Hypertension | xx (xx%) | xx (xx%) | xx (xx%) |
| Myocardial infarction | xx (xx%) | xx (xx%) | xx (xx%) |

Note: Cardiovascular risk factors include past or current medical conditions recorded at screening.
<user ID: pathname datestamp timestamp>

Example: POP_T05
Protocol: 207626
Population: Intent-to-Treat

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Table 1.18
Summary of Family History of Cardiovascular Risk Factors

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|--|--------------------------------------|-------------------|------------------|
| Family history of premature coronary artery disease (women <65 years old or men <55 years old) | | | |
| n | xxx | xxx | Xxx |
| Yes | xx (xx%) | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) | xx (xx%) |
| Family history of myocardial infarction | | | |
| n | xxx | xxx | Xxx |
| Yes | xx (xx%) | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) | xx (xx%) |

Note: History in first-degree relatives only (biological parent, sibling, or offspring).

<user ID: pathname datestamp timestamp>

Example: POP_T05
Protocol: 207626
Population: Intent-to-Treat

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Table 1.18
Summary of Family History of Cardiovascular Risk Factors

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|-----------------------------|--------------------------------------|-------------------|------------------|
| Family history of stroke | | | |
| n | xxx | xxx | Xxx |
| Yes | xx (xx%) | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) | xx (xx%) |

Note: History in first-degree relatives only (biological parent, sibling, or offspring).

<user ID: pathname datestamp timestamp>

Example: POP_T06
Protocol: 207626
Population: Intent-to-Treat

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Table 1.19
Summary of Smoking History at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|---|--------------------------------------|-------------------|------------------|
| <hr/> | | | |
| Average number of cigarettes smoked per day | | | |
| n | xxx | xxx | xxx |
| Mean | xx.x | xx.x | xx.x |
| SD | xx.xx | xx xx | xx.xx |
| Median | xx.x | xx.x | xx.x |
| Min. | x | x | x |
| Max. | xx | xx | xx |
| | | | |
| Number of years during which subject has smoked tobacco | | | |
| n | xxx | xxx | xxx |
| Mean | xx.x | xx.x | xx.x |
| SD | xx.xx | xx xx | xx.xx |
| Median | xx.x | xx.x | xx.x |
| Min. | x | x | x |
| Max. | xx | xx | xx |

[1] Pack-years = (number of cigarettes smoked per day / 20) x number of years smoked
<user ID: pathname datestamp timestamp>

Example: POP_T06
 Protocol: 207626
 Population: Intent-to-Treat

Table 1.19
 Summary of Smoking History at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|-----------------------------|--------------------------------------|-------------------|------------------|
| Number of pack-years [1] | | | |
| n | xxx | xxx | xxx |
| Mean | xx.x | xx.x | xx.x |
| SD | xx.xx | xx xx | xx.xx |
| Median | xx.x | xx.x | xx.x |
| Min. | x | x | x |
| Max. | xx | xx | xx |

[1] Pack-years = (number of cigarettes smoked per day / 20) x number of years smoked

<user ID: pathname datestamp timestamp>

Example: POP_T07
Protocol: 207626
Population: Intent-to-Treat

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Table 1.20
Summary of Smoking Status at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|----------------|--------------------------------------|-------------------|------------------|
| n | xx | xx | xx |
| Current smoker | xx (xx%) | xx (xx%) | xx (xx%) |
| Former smoker | xx (xx%) | xx (xx%) | xx (xx%) |

<user ID: pathname datestamp timestamp>

Example: POP_T08
Protocol: 207626
Population: Intent-to-Treat

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Table 1.21
Summary of COPD History at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|-------------------------------------|--------------------------------------|-------------------|------------------|
| COPD Type | | | |
| Chronic bronchitis | xx (xx%) | xx (xx%) | xx (xx%) |
| Emphysema | xx (xx%) | xx (xx%) | xx (xx%) |
| Chronic bronchitis and emphysema | xx (xx%) | xx (xx%) | xx (xx%) |
| COPD duration (years) | | | |
| n | xxx | xxx | xxx |
| <1 year | xx (xx%) | xx (xx%) | xx (xx%) |
| >=1 to <5 years | xx (xx%) | xx (xx%) | xx (xx%) |
| >=5 to <10 years | xx (xx%) | xx (xx%) | xx (xx%) |
| >=10 to <15 years | xx (xx%) | xx (xx%) | xx (xx%) |
| >=15 to <20 years | xx (xx%) | xx (xx%) | xx (xx%) |
| >=20 to <25 years | xx (xx%) | xx (xx%) | xx (xx%) |
| >=25 years | xx (xx%) | xx (xx%) | xx (xx%) |

<user ID: pathname datestamp timestamp>

Example: POP_T09
Protocol: 207626
Population: Intent-to-Treat

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Table 1.22
Summary of COPD Exacerbation History at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|---|--------------------------------------|-------------------|------------------|
| Number of exacerbations in the last 12 months that were managed without oral/systemic corticosteroids and/or antibiotics (not involving hospitalization) | | | |
| n | xxx | xxx | Xxx |
| 0 | xx (xx%) | xx (xx%) | xx (xx%) |
| 1 | xx (xx%) | xx (xx%) | xx (xx%) |
| >=2 | xx (xx%) | xx (xx%) | xx (xx%) |
| Number of exacerbations in the last 12 months that required oral/systemic corticosteroids and/or antibiotics (not involving hospitalization) | | | |
| n | xxx | xxx | Xxx |
| 0 | xx (xx%) | xx (xx%) | xx (xx%) |
| 1 | xx (xx%) | xx (xx%) | xx (xx%) |
| >=2 | xx (xx%) | xx (xx%) | xx (xx%) |
| Number of exacerbations in the last 12 months that required | | | |

hospitalization

| n | xxx | xxx | Xxx |
|-----|----------|----------|----------|
| 0 | xx (xx%) | xx (xx%) | xx (xx%) |
| 1 | xx (xx%) | xx (xx%) | xx (xx%) |
| >=2 | xx (xx%) | xx (xx%) | xx (xx%) |

COPD Type

| | | | |
|-------------------------------------|----------|----------|----------|
| Chronic bronchitis | xx (xx%) | xx (xx%) | xx (xx%) |
| Emphysema | xx (xx%) | xx (xx%) | xx (xx%) |
| Chronic bronchitis and emphysema | xx (xx%) | xx (xx%) | xx (xx%) |

Note: Number of COPD exacerbations reported in the 12 months prior to the Screening Visit.

Note: Moderate exacerbations are defined as those that required treatment with oral/systemic corticosteroids and/or antibiotics (not involving hospitalisation). Severe exacerbations are defined as those that required in-patient hospitalisation.

<user ID: pathname datestamp timestamp>

Example: POP_T10
Protocol: 207626
Population: Intent-to-Treat

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Table 1.23
Summary of Screening Lung Function

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|--|--------------------------------------|-------------------|------------------|
| Pre-bronchodilator FEV ₁ (L) | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |
| Post-bronchodilator FEV ₁ (L) | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |

Programming note: Same format for Table 1.24 (Summary of Screening Lung Function by Country).

<user ID: pathname datestamp timestamp>

Example: POP_T10
 Protocol: 207626
 Population: Intent-to-Treat

Table 1.23
 Summary of Screening Lung Function

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|-----------------------------|--------------------------------------|-------------------|------------------|
| Pre-bronchodilator FVC (L) | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |
| Post-bronchodilator FVC (L) | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |

Programming note: Same format for Table 1.24 (Summary of Screening Lung Function by Country).

<user ID: pathname datestamp timestamp>

Example: POP_T10
 Protocol: 207626
 Population: Intent-to-Treat

Table 1.23
 Summary of Screening Lung Function

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|---|--------------------------------------|-------------------|------------------|
| <hr/> | | | |
| Pre-bronchodilator FEV ₁ /FVC | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |
| | | | |
| Post-bronchodilator FEV ₁ /FVC | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |

Programming note: Same format for Table 1.24 (Summary of Screening Lung Function by Country).

<user ID: pathname datestamp timestamp>

Example: POP_T10
 Protocol: 207626
 Population: Intent-to-Treat

Table 1.23
 Summary of Screening Lung Function

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|--|--------------------------------------|-------------------|------------------|
| Predicted FEV ₁ (L) | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |
| Percent predicted FEV ₁ (%) | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |

Programming note: Same format for Table 1.24 (Summary of Screening Lung Function by Country).

<user ID: pathname datestamp timestamp>

Example: POP_T10
 Protocol: 207626
 Population: Intent-to-Treat

Table 1.23
 Summary of Screening Lung Function

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|-------------------|--------------------------------------|-------------------|------------------|
| Reversibility (%) | | | |
| n | xxx | xxx | xxx |
| Mean | xx.xxx | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx | x.xxxx |
| Median | xx.xxx | xx.xxx | xx.xxx |
| Min. | xx.xx | xx.xx | xx.xx |
| Max. | xx.xx | xx.xx | xx.xx |

Programming note: Same format for Table 1.24 (Summary of Screening Lung Function by Country).

<user ID: pathname datestamp timestamp>

Example: POP_T11
Protocol: 207626
Population: Intent-to-Treat

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Table 1.25
Summary of Reversibility and GOLD Grade (1 - 4) at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|--|--------------------------------------|-------------------|------------------|
| Gold Grade | | | |
| n | xxx | xxx | Xxx |
| Grade 1 (mild): predicted FEV ₁ ≥ 80% | xx (xx%) | xx (xx%) | xx (xx%) |
| Grade 2 (moderate): 50% ≤ predicted FEV ₁ < 80% | xx (xx%) | xx (xx%) | xx (xx%) |
| Grade 3 (severe) 30% ≤ predicted FEV ₁ < 50% | xx (xx%) | xx (xx%) | xx (xx%) |
| Grade 3 (very severe) predicted FEV ₁ < 30% | xx (xx%) | xx (xx%) | xx (xx%) |
| Reversible to salbutamol [1] | | | |
| n | xxx | xxx | Xxx |
| Reversible | xx (xx%) | xx (xx%) | xx (xx%) |
| Not reversible | xx (xx%) | xx (xx%) | xx (xx%) |
| Exacerbation history in previous year | | | |
| N | xxx | xxx | Xxx |
| <2 moderate and no severe | xx (xx%) | xx (xx%) | xx (xx%) |
| ≥2 moderate OR ≥1 severe | xx (xx%) | xx (xx%) | xx (xx%) |
| GOLD grade / exacerbation history in previous year | | | |
| GOLD 1/2 with ≥2 moderate or ≥1 severe | | | |
| GOLD 3/4 with <2 moderate and no severe | | | |
| GOLD 3/4 with ≥2 moderate or ≥1 severe | | | |

[1] "Reversible" is defined as an increase in FEV₁ of $\geq 12\%$ AND of $\geq 200\text{mL}$ following administration of salbutamol. "Not reversible" is defined as an increase in FEV₁ of $< 200\text{mL}$ OR an increase of $\geq 200\text{mL}$ that is $< 12\%$ of the pre-salbutamol FEV₁.

Note: Moderate exacerbations are defined as exacerbations that required treatment with oral/systemic corticosteroids and/or antibiotics (not involving hospitalisation). Severe exacerbations are defined as exacerbations that required in-patient hospitalisation.

<user ID: pathname datestamp timestamp>

Example: POP_T11
 Protocol: 207626
 Population: Intent-to-Treat

Table 1.25
 Summary of Reversibility and GOLD Grade (1 - 4) at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|--|--------------------------------------|-------------------|------------------|
|--|--------------------------------------|-------------------|------------------|

GOLD grade / exacerbation history in previous year

GOLD 1/2 with ≥ 2 moderate or ≥ 1 severe
 GOLD 3/4 with < 2 moderate and no severe
 GOLD 3/4 with ≥ 2 moderate or ≥ 1 severe

[1] "Reversible" is defined as an increase in FEV₁ of $\geq 12\%$ AND of $\geq 200\text{mL}$ following administration of salbutamol. "Not reversible" is defined as an increase in FEV₁ of $< 200\text{mL}$ OR an increase of $\geq 200\text{mL}$ that is $< 12\%$ of the pre-salbutamol FEV₁.

Note: Moderate exacerbations are defined as exacerbations that required treatment with oral/systemic corticosteroids and/or antibiotics (not involving hospitalisation). Severe exacerbations are defined as exacerbations that required in-patient hospitalisation.

<user ID: pathname datestamp timestamp>

Example: POP_T12
Protocol: 207626
Population: Intent-to-Treat

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Table 1.26
Summary of CAT Score and CAT Category at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|--------------|--------------------------------------|-------------------|------------------|
| CAT score | | | |
| n | xxx | xxx | xxx |
| Mean | xx.x | xx.x | xx.x |
| SD | xx.xx | xx xx | xx.xx |
| Median | xx.x | xx.x | xx.x |
| Min. | x | x | x |
| Max. | xx | xx | xx |
| CAT category | | | |
| n | xxx | xxx | Xxx |
| CAT < 10 | xx (xx%) | xx (xx%) | xx (xx%) |
| CAT >= 10 | xx (xx%) | xx (xx%) | xx (xx%) |

<user ID: pathname datestamp timestamp>

Example: POP_T13
Protocol: 207626
Population: Intent-to-Treat

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Table 1.27
Summary of COPD Concomitant Medications Taken Prior to Screening

| Respiratory Class Ingredient | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|---------------------------------|--------------------------------------|-------------------|------------------|
| Any medication | xxx (xx%) | xxx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxx | | | |
| Any medication | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxx + xxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxx + xxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxx + xxxxxxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxx + xxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxx + xxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxx + xxxxxxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxx | | | |
| Any medication | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxx + xxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxx + xxxxxxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |
| xxxxxxxx | xx (xx%) | xx (xx%) | xxx (xx%) |

Programming not: same format for Table 1.29 (Summary of COPD Concomitant Medications Taken during Run-in for Reasons other than an Exacerbation) and Table 1.32 (Summary of COPD Concomitant Medications Taken during Run-in for an Exacerbation).

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Note: Combination products are included in all applicable respiratory classes.
Note: Study provided salbutamol was not recorded as a concomitant medication.
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Example: POP_T14
Protocol: 207626
Population: Intent-to-Treat

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Table 1.28
Summary of COPD Concomitant Medication Combinations Taken Prior to Screening

| Medication Combination [1] Full Medication Combination [2] | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|---|--------------------------------------|-------------------|------------------|
| None | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |
| xxx + xxx + xxx + xxx | xx (xx%) | xx (xx%) | xx (xx%) |

[1] COPD respiratory medication class (RMC) combination based on the individual RMC and any combination of the RMCs: ICS, LABA, LAMA, Xanthine and PDE4 Inhibitors.

[2] COPD RMC combination based on all RMCs.

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Example: POP_T15
Protocol: 207626
Population: Intent-to-Treat

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Table 1.30

Summary of On-Treatment COPD Concomitant Medications Taken for Reasons other than an Exacerbation

| Respiratory Class Ingredient | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|---------------------------------|--------------------------------------|-------------------|
| Any medication | xxx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxxxx | | |
| Any medication | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxx + xxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxx + xxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxx | | |
| Any medication | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxx | xx (xx%) | xx (xx%) |

Programming note: Same format for Table 1.31 (Summary of Post-Treatment COPD Concomitant Medications Taken for Reasons other than an Exacerbation), Table 1.33 (Summary of On-Treatment COPD Concomitant Medications Taken for an Exacerbation), and Table 1.34 (Summary of Post-Treatment COPD Concomitant Medications Taken for an Exacerbation),

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Note: Combination products are included in all applicable respiratory classes.
Note: Study provided salbutamol was not recorded as a concomitant medication.
Note: On-treatment medications include medications stopped on the day of randomization.
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Example: POP_T16
Protocol: 207626
Population: Intent-to-Treat

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Table 1.35
Summary of On-Treatment Non-COPD Concomitant Medications

| ATC Level 1 Ingredient | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|---------------------------|--------------------------------------|-------------------|
| Any medication | xxx (xx%) | xxx (xx%) |
| xxxxxxxxxxxxxxxx | | |
| Any medication | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxx + xxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxx + xxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxx | | |
| Any medication | xx (xx%) | xx (xx%) |
| xxxxxx + xxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxx + xxxxxxxxxxx | xx (xx%) | xx (xx%) |
| xxxxxxxx | xx (xx%) | xx (xx%) |

Programming note: Same format for Table 1.36 (Summary of Post-Treatment Non-COPD Concomitant Medications).

Note: Combination products are included in all applicable ATC level 1 categories.

Note: On-treatment medications include medications stopped on the day of randomization.

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Example: POP_T17
Protocol: 207626
Population: Intent-to-Treat

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Table 1.37
Summary of Treatment Compliance

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) | Total (N=xxx) |
|------------------------|--------------------------------------|-------------------|------------------|
| ELLIPTA compliance (%) | | | |
| n | xxx | xxx | xxx |
| Mean | xx.x | xx.x | xx.x |
| SD | x.xx | x.xx | x.xx |
| Median | xx.x | xx.x | xx.x |
| Min. | xx.x | xx.x | xx.x |
| Max. | xx.x | xx.x | xx.x |
| <80% | xx (xx%) | xx (xx%) | xx (xx%) |
| >=80% to <95% | xx (xx%) | xx (xx%) | xx (xx%) |
| >=95% to <=105% | xx (xx%) | xx (xx%) | xx (xx%) |
| >105% to <=120% | xx (xx%) | xx (xx%) | xx (xx%) |
| >120% | xx (xx%) | xx (xx%) | xx (xx%) |

Programming note: repeat this section for HANDIHALER compliance (%) and Overall compliance (%).

Note: High compliance values may be due to the imputation in the denominator of missing treatment stop dates with the date study treatment was last known to be taken.

<user ID: pathname datestamp timestamp>

Example: EFF_T01
Protocol: 207626
Population: Intent-to-Treat

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Table 2.1
Summary of Baseline FEV₁ (L)

| | | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|---|--------|--------------------------------------|-------------------|
| All subjects | n | xxx | xxx |
| | Mean | xx.xxx | xx.xxx |
| | SD | x.xxxx | x.xxxx |
| | Min. | xx.xx | xx.xx |
| | Q1 | xx.xxx | xx.xxx |
| | Median | xx.xxx | xx.xxx |
| | Q3 | xx.xxx | xx.xxx |
| | Max. | xx.xx | xx.xx |
| Subjects with non- missing on-treatment trough FEV ₁ data at Day 85 | | | |
| | n | xxx | xxx |
| | Mean | xx.xxx | xx.xxx |
| | SD | x.xxxx | x.xxxx |
| | Min. | xx.xx | xx.xx |
| | Q1 | xx.xxx | xx.xxx |
| | Median | xx.xxx | xx.xxx |
| | Q3 | xx.xxx | xx.xxx |
| | Max. | xx.xx | xx.xx |

Subjects with missing

on-treatment trough
FEV₁ data at Day 85

| | | |
|--------|--------|--------|
| n | xxx | xxx |
| Mean | xx.xxx | xx.xxx |
| SD | x.xxxx | x.xxxx |
| Min. | xx.xx | xx.xx |
| Q1 | xx.xxx | xx.xxx |
| Median | xx.xxx | xx.xxx |
| Q3 | xx.xxx | xx.xxx |
| Max. | xx.xx | xx.xx |

Programming note: Same format for Table 2.2 (Summary of Baseline FEV₁ (L) by Country).

Note: Baseline is the average of the two pre-dose measurements on Day 1.

<user ID: pathname datestamp timestamp>

Example: EFF_T02
Protocol: 207626
Population: Intent-to-Treat

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Table 2.3
Summary of Trough FEV₁ (L) - Hypothetical Estimand

| | | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|--------|----------------------|--------------------------------------|-------------------|
| Day 28 | Trough FEV1 (L) | xxx | xxx |
| | Mean | x.xxx | x.xxx |
| | SD | x.xxxx | x.xxxx |
| | Min. | x.xx | x.xx |
| | Q1 | x.xxx | x.xxx |
| | Median | x.xxx | x.xxx |
| | Q3 | x.xxx | x.xxx |
| | Max. | x.xx | x.xx |
| | Change from baseline | xxx | xxx |
| | Mean | x.xxx | x.xxx |
| | SD | x.xxxx | x.xxxx |
| | Min. | x.xx | x.xx |
| | Q1 | x.xxx | x.xxx |
| | Median | x.xxx | x.xxx |
| | Q3 | x.xxx | x.xxx |
| | Max. | x.xx | x.xx |
| Day 84 | Trough FEV1 (L) | xxx | xxx |
| | Mean | x.xxx | x.xxx |
| | SD | x.xxxx | x.xxxx |
| | Min. | x.xx | x.xx |
| | Q1 | x.xxx | x.xxx |
| | Median | x.xxx | x.xxx |
| | Q3 | x.xxx | x.xxx |

| | | | |
|----------------------|--------|--------|--------|
| | Max. | x.xx | x.xx |
| Change from baseline | n | xxx | xxx |
| | Mean | x.xxx | x.xxx |
| | SD | x.xxxx | x.xxxx |
| | Min. | x.xx | x.xx |
| | Q1 | x.xxx | x.xxx |
| | Median | x.xxx | x.xxx |
| | Q3 | x.xxx | x.xxx |
| | Max. | x.xx | x.xx |

<user ID: pathname datestamp timestamp>

Example: EFF_T02
Protocol: 207626
Population: Intent-to-Treat

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Table 2.3
Summary of Trough FEV₁ (L) - Hypothetical Estimand

| | | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|--------|-----------------------------|--------------------------------------|-------------------|
| <hr/> | | | |
| Day 85 | Trough FEV ₁ (L) | xxx | xxx |
| | Mean | x.xxx | x.xxx |
| | SD | x.xxxx | x.xxxx |
| | Min. | x.xx | x.xx |
| | Q1 | x.xxx | x.xxx |
| | Median | x.xxx | x.xxx |
| | Q3 | x.xxx | x.xxx |
| | Max. | x.xx | x.xx |
| <hr/> | | | |
| | Change from baseline | xxx | xxx |
| | Mean | x.xxx | x.xxx |
| | SD | x.xxxx | x.xxxx |
| | Min. | x.xx | x.xx |
| | Q1 | x.xxx | x.xxx |
| | Median | x.xxx | x.xxx |
| | Q3 | x.xxx | x.xxx |
| | Max. | x.xx | x.xx |

Programming note: Same format for Table 2.4 (Summary of Trough FEV₁- Treatment Policy Estimand), Table 2.5 (Summary of Trough FEV₁ by Country - Hypothetical Estimand), and Table 2.6 (Summary of Trough FEV₁ by Country - Treatment Policy Estimand).

Programming note: Same format for Table 2.12 (Summary of SGRQ Total and Domain Scores - Hypothetical Estimand), but will include total score and 3 domain scores (Symptoms, Activity, and Impacts) on Days 28 and 84.

Programming note: Same format for Table 2.17 (Summary of CAT Score - Hypothetical Estimand) on Days 28 and 84.

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Example: EFF_T03
Protocol: 207626
Population: Intent-to-Treat

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Table 2.7
Analysis of Trough FEV₁ (L) - Hypothetical Estimand

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|----------------------------------|--------------------------------------|-------------------|
| Day 28 | | |
| n | Xxx | xxx |
| LS mean (SE) | x.xxx (x.xxxx) | x.xxx (x.xxxx) |
| 95% CI | (x.xxx, x.xxx) | (x.xxx, x.xxx) |
| LS mean change (SE) | x.xxx (x.xxxx) | x.xxx (x.xxxx) |
| 95% CI | (x.xxx, x.xxx) | (x.xxx, x.xxx) |
| FF/UMEC/VI 100/62.5/25 VS TIO 18 | | |
| Difference (SE) | x.xxx (x.xxxx) | |
| 95% CI | (x.xxx, x.xxx) | |
| p-value | x.xxx | |
| Day 84 | | |
| n | Xxx | xxx |
| LS mean (SE) | x.xxx (x.xxxx) | x.xxx (x.xxxx) |
| 95% CI | (x.xxx, x.xxx) | (x.xxx, x.xxx) |
| LS mean change (SE) | x.xxx (x.xxxx) | x.xxx (x.xxxx) |
| 95% CI | (x.xxx, x.xxx) | (x.xxx, x.xxx) |
| FF/UMEC/VI 100/62.5/25 VS TIO 18 | | |
| Difference (SE) | x.xxx (x.xxxx) | |
| 95% CI | (x.xxx, x.xxx) | |
| p-value | x.xxx | |

Note: Analysis consists of a repeated measures model with covariates of baseline value, visit, geographical region, treatment, and interactions of visit with treatment and baseline value.

Programming note: Same format for Table 2.8 (Analysis of Trough FEV₁ - Treatment Policy Estimand).

Programming note: Same format for Table 2.13 (Analysis of SGRQ Total Score - Hypothetical Estimand) on Days 28 and 84 only.

Programming note: Same format for Table 2.21 (Analysis of CAT Score - Hypothetical Estimand) on Days 28 and 84 only.

<user ID: pathname datestamp timestamp>

Example: EFF_T03
Protocol: 207626
Population: Intent-to-Treat

Table 2.7
Analysis of Trough FEV₁ (L) - Hypothetical Estimand

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|----------------------------------|--------------------------------------|-------------------|
| Day 85 | | |
| n | xxx | xxx |
| LS mean (SE) | x.xxx (x.xxxx) | x.xxx (x.xxxx) |
| 95% CI | (x.xxx, x.xxx) | (x.xxx, x.xxx) |
| LS mean change (SE) | x.xxx (x.xxxx) | x.xxx (x.xxxx) |
| 95% CI | (x.xxx, x.xxx) | (x.xxx, x.xxx) |
| FF/UMEC/VI 100/62.5/25 VS TIO 18 | | |
| Difference (SE) | x.xxx (x.xxxx) | |
| 95% CI | (x.xxx, x.xxx) | |
| p-value | x.xxx | |

Note: Analysis consists of a repeated measures model with covariates of baseline value, visit, geographical region, treatment, and interactions of visit by treatment and visit by baseline.

Programming note: Same format for Table 2.8 (Analysis of Trough FEV₁ - Treatment Policy Estimand).

Programming note: Same format for Table 2.13 (Analysis of SGRQ Total Score - Hypothetical Estimand) on Days 28 and 84 only.

Programming note: Same format for Table 2.21 (Analysis of CAT Score - Hypothetical Estimand) on Days 28 and 84 only.

<user ID: pathname datestamp timestamp>

Example: EFF_T04
Protocol: 207626
Population: Intent-to-Treat

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Table 2.9
Significance Level for Interaction of Treatment with Geographical Region and Baseline FEV₁ for
Analysis of Trough FEV₁ (L) on Day 85 - Treatment Policy Estimand

| Interaction of treatment with: | p-value [1] |
|--------------------------------|-------------|
| Baseline FEV ₁ | x.xxx |
| Geographical region | x.xxx |

[1] Analysis consists of a repeated measures model with covariates of baseline value, visit, geographical region, and treatment, as well as visit by treatment and visit by baseline interaction.

Note: An interaction is considered statistically significant if the p-value is <0.10.

Programming note: Same format for Table 2.10 (Significance Level for Interaction of Treatment with Geographical Region and Baseline FEV₁ for Analysis of Trough FEV₁ (L) on Day 85 - Hypothetical Estimand)

<user ID: pathname datestamp timestamp>

Example: EFF_T05
Protocol: 207626
Population: Intent-to-Treat

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Table 2.11

Tipping Point Sensitivity Analysis: Two-Sided p-values after Imputing Various Day 85 Mean Changes from Baseline Trough FEV₁ (L) - Treatment Policy Estimand

| TIO 18 | FF/UMEC/VI 100/62.5/25 | | | | | | |
|--------|------------------------|-------|-------|-------|-------|-------|-------|
| | -0.15 | -0.10 | -0.05 | 0.00 | 0.05 | 0.10 | 0.15 |
| -0.15 | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx |
| -0.10 | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx |
| -0.05 | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx |
| 0.00 | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx |
| 0.05 | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx |
| 0.10 | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx |
| 0.15 | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx | x.xxx |

Note: Each column and each row represents a step-wise increment in the magnitude of the change from baseline in trough FEV₁.

Note: Data for subjects with missing baseline values were not imputed.

Note: Multiple imputation at Day 85 followed by Day 28 and Day 84 was calculated for all subjects with a missing on-treatment assessment, adjusting for covariates of geographical region and treatment. Imputed values were taken from a multivariate normal distribution with the assumed mean change from baseline and standard deviation taken from observed data at the corresponding time point.

Note: Analysis, including observed and imputed data at Day 85, used an ANCOVA model with covariates of baseline value, geographical region, and treatment.

Programming note: Add * before each p-value that is less than 0.050.

<user ID: pathname datestamp timestamp>

Example: EFF_T06
Protocol: 207626
Population: Intent-to-Treat

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Table 2.12
Summary of Baseline SGRQ Total and Domain Scores

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|------------------|--------------------------------------|-------------------|
| SGRQ total score | | |
| N | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx.xx |
| Min. | x | x |
| Q1 | xx.x | xx.x |
| Median | xx.x | xx.x |
| Q3 | xx.x | xx.x |
| Max. | xx | xx |
| Symptoms domain | | |
| N | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx xx |
| Min. | x | x |
| Q1 | xx.x | xx.x |
| Median | xx.x | xx.x |
| Q3 | xx.x | xx.x |
| Max. | xx | xx |

Programming note: Same format for Table 2.19 (Summary of Baseline CAT Score).

<user ID: pathname datestamp timestamp>

Example: EFF_T06
 Protocol: 207626
 Population: Intent-to-Treat

Table 2.12
 Summary of Baseline SGRQ Total and Domain Scores

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|-----------------|--------------------------------------|-------------------|
| <hr/> | | |
| Activity domain | | |
| N | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx xx |
| Min. | x | x |
| Q1 | xx.x | xx.x |
| Median | xx.x | xx.x |
| Q3 | xx.x | xx.x |
| Max. | xx | xx |
| | | |
| Impacts domain | | |
| N | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx xx |
| Min. | x | x |
| Q1 | xx.x | xx.x |
| Median | xx.x | xx.x |
| Q3 | xx.x | xx.x |
| Max. | xx | xx |

Programming note: Same format for Table 2.19 (Summary of Baseline CAT Score).

<user ID: pathname datestamp timestamp>

Example: EFF_T03
Protocol: 207626
Population: Intent-to-Treat

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Table 2.14

Analysis of SGRQ Total Score - Hypothetical Estimand

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|----------------------------------|--------------------------------------|-------------------|
| Day 28 | | |
| n [1] | xxx | xxx |
| n [2] | xxx | xxx |
| LS Mean (SE) | x.x (x.xx) | x.x (x.xx) |
| 95% CI | (x.x, x.x) | (x.x, x.x) |
| LS Mean Change (SE) | x.x (x.xx) | x.x (x.xx) |
| 95% CI | (x.x, x.x) | (x.x, x.x) |
| FF/UMEC/VI 100/62.5/25 VS TIO 18 | | |
| Difference (SE) | x.x (x.xx) | |
| 95% CI | (x.x, x.x) | |
| p-value | x.xxx | |

[1] Number of subjects with analyzable data for one or more time points.

[2] Number of subjects with analyzable data at the current time point.

Note: Analysis performed using a repeated measures model with covariates of baseline value, visit, geographical region, treatment, visit by treatment and visit by baseline interactions.

<user ID: pathname datestamp timestamp>

Example: EFF_T03
Protocol: 207626
Population: Intent-to-Treat

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Table 2.14
Analysis of SGRQ Total Score - Hypothetical Estimand

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|----------------------------------|--------------------------------------|-------------------|
| Day 84 | | |
| n [1] | xxx | xxx |
| n [2] | xxx | xxx |
| LS Mean (SE) | x.x (x.xx) | x.x (x.xx) |
| 95% CI | (x.x, x.x) | (x.x, x.x) |
| LS Mean Change (SE) | x.x (x.xx) | x.x (x.xx) |
| 95% CI | (x.x, x.x) | (x.x, x.x) |
| FF/UMEC/VI 100/62.5/25 VS TIO 18 | | |
| Difference (SE) | x.x (x.xx) | |
| 95% CI | (x.x, x.x) | |
| p-value | x.xxx | |

[1] Number of subjects with analyzable data for one or more time points.

[2] Number of subjects with analyzable data at the current time point.

Note: Analysis performed using a repeated measures model with covariates of baseline value, visit, geographical region, treatment, visit by treatment and visit by baseline interactions.

<user ID: pathname datestamp timestamp>

Example: EFF_T07
Protocol: 207626
Population: Intent-to-Treat

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Table 2.15
Summary and Analysis of Proportion of Responders as Defined by SGRQ Total Score - Hypothetical
Estimand

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|----------------------------------|--------------------------------------|-------------------|
| <hr/> | | |
| Day 28 | | |
| n | xxx | xxx |
| Responders | xxx (xx%) | xxx (xx%) |
| Non-responders | xxx (xx%) | xxx (xx%) |
| FF/UMEC/VI 100/62.5/25 VS TIO 18 | | |
| Odds ratio | x.xx | |
| 95% CI | (x.xx, x.xx) | |
| p-value | x.xxx | |
| Day 84 | | |
| n | xxx | xxx |
| Responders | xxx (xx%) | xxx (xx%) |
| Non-responders | xxx (xx%) | xxx (xx%) |
| FF/UMEC/VI 100/62.5/25 VS TIO 18 | | |
| Odds ratio | x.xx | |
| 95% CI | (x.xx, x.xx) | |
| p-value | x.xxx | |

Note: Responders are defined as those subjects whose SGRQ total score is 4 units or more below baseline. Non-responders are defined as those subjects whose SGRQ total score is more than 4 units below baseline or a missing SGRQ total score at a the timepoint in question and no subsequent on-treatment scores. Subjects will not be assigned a responder status at any timepoint if their baseline SGRQ total score is missing. Subjects will not have a responder status assigned at a given timepoint if the SGRQ total score at that timepoint is missing.

Note: Analysis is based on a generalized linear mixed model with a logit link function and covariates of treatment group, visit, geographical region, baseline SGRQ score, and interactions of visit with baseline SGRQ score and with treatment.

Programming note: same format and same timepoints for Table 2.23 (Summary and Analysis of Proportion of Responders as Defined by CAT Score - Hypothetical Estimand). Highlighted text in footnote above should be changed as follows:

SGRQ total score is 4 units => CAT score is 2 units

SGRQ total score is more than 4 units => CAT score is more than 2 units

SGRQ total score => CAT score

<user ID: pathname datestamp timestamp>

Example: EFF_T08
Protocol: 207626
Population: Intent-to-Treat

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Table 2.16
Summary of On-Treatment COPD Exacerbations

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | | TIO 18 (N=xxx) | |
|--|--------------------------------------|------------|-------------------|------------|
| | n (%) | Rate (#) | n (%) | Rate (%) |
| Total treatment exposure (subject-years) | | xxx.x | | xxx.x |
| Subjects with a mild, moderate, or severe COPD exacerbation | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Subjects with a mild COPD exacerbation | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Subjects with a moderate COPD exacerbation | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Subjects with a severe COPD exacerbation | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Subjects with a moderate/severe COPD exacerbation | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Total number of moderate/severe COPD exacerbations per subject | | | | |
| n | | xxx (xx) | | xxx (xx) |
| 0 | | xxx (xx) | | xxx (xx) |
| 1 | | xxx (xx) | | xxx (xx) |
| 2 | | xxx (xx) | | xxx (xx) |
| >=3 | | xxx (xx) | | xxx (xx) |
| Subjects with >=2 moderate/severe COPD exacerbations | | xxx (xx) | | xxx (xx) |

Note: n = number of subjects, # = number of COPD exacerbations.

Note: Rate is the event rate per 1000 subject-years, calculated as the number of events x 1000, divided by the total duration at risk.

Note: Moderate exacerbations are defined as those that required treatment with oral or systemic corticosteroids and/or antibiotics (not involving hospitalizations or resulting in death). Severe exacerbations are defined as those that required hospitalization or resulted in death.

Programming note: Same format for Table 2.18 (Summary of Post-treatment COPD Exacerbations).

<user ID: pathname datestamp timestamp>

Example: EFF_T09
Protocol: 207626
Population: Intent-to-Treat

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Table 2.17
Summary of On-Treatment Details of COPD Exacerbations

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|--|--------------------------------------|-------------------|
| Total number of moderate/severe COPD exacerbations | xxxx | xxxx |
| Treatment [1] | | |
| Oral/systemic corticosteroids | xxx (xx) | xxx (xx) |
| Antibiotics | xxx (xx) | xxx (xx) |
| Emergency room visit | xxx (xx) | xxx (xx) |
| Hospitalization | xxx (xx) | xxx (xx) |
| Severity of Exacerbation | | |
| Mild | xxx (xx) | xxx (xx) |
| Moderate | xxx (xx) | xxx (xx) |
| Severe | xxx (xx) | xxx (xx) |
| Outcome | | |
| Resolved | xxx (xx) | xxx (xx) |
| Fatal | xxx (xx) | xxx (xx) |
| Not resolved | xxx (xx) | xxx (xx) |

[1] More than one treatment could have been recorded for a given exacerbation.

Note: Percentages are calculated using the total number of moderate/severe COPD exacerbations as the denominator.

Note: Rate is the event rate per 1000 subject-years, calculated as the number of events x 1000, divided by the total treatment exposure through Day 85.

Programming note: Same format for Table 2.19 (Summary of Post-Treatment Details of COPD Exacerbations).

<user ID: pathname datestamp timestamp>

Example: EFF_T09
 Protocol: 207626
 Population: Intent-to-Treat

Table 2.17
 Summary of On-Treatment Details of COPD Exacerbations

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|---------------------------------|--------------------------------------|-------------------|
| Duration of exacerbation (days) | | |
| n | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx xx |
| Median | xx.x | xx.x |
| Min. | x | x |
| Max. | xx | xx |

[1] Percentages are calculated using the number of exacerbations of any severity as the denominator.

[2] More than one treatment could have been recorded for a given exacerbation.

Note: Rate is the event rate per 1000 subject-years, calculated as the number of events x 1000, divided by the total treatment exposure through Day 85.

Programming note: Same format for Table 2.19 (Summary of Post-Treatment COPD Exacerbation Details).
 The description for the first row in the table should be 'Total time in study post-treatment (subject-years)'.

<user ID: pathname datestamp timestamp>

Example: SAF_T01
Protocol: 207626
Population: Intent-to-Treat

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Table 3.1
Summary of Exposure

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|--|--------------------------------------|-------------------|
| Exposure (days) | | |
| n | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx.xx |
| Median | xx.x | xx.xx |
| Min. | xx | xx |
| Max. | xxx | xxx |
| Total treatment exposure (subject-years) | xxx.x | xxx.x |
| Duration of exposure | | |
| >=1 day | xx (xx%) | xx (xx%) |
| >=4 weeks | xx (xx%) | xx (xx%) |
| >=8 weeks | xx (xx%) | xx (xx%) |
| >=12 weeks | xx (xx%) | xx (xx%) |
| 11-13 weeks | xx (xx%) | xx (xx%) |
| Total time in study post-treatment (subject-years) | xxx.x | xxx.x |

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Example: SAF_T02
Protocol: 207626
Population: Intent-to-Treat

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Table 3.23
Summary of On-Treatment Pneumonia Incidence

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | | TIO 18 (N=xxx) | |
|--|--------------------------------------|------------|-------------------|------------|
| | n (%) | Rate (%) | n (%) | Rate (%) |
| Total treatment exposure (subject-years) | | xxx.x | | xxx.x |
| Subjects with pneumonia | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Subjects with pneumonia supported by X-ray or CT scan | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Total number (%) of pneumonia cases per subject | | | | |
| n | | xxx (xx) | | xxx (xx) |
| 0 | | xxx (xx) | | xxx (xx) |
| 1 | | xxx (xx) | | xxx (xx) |
| >=2 | | xxx (xx) | | xxx (xx) |

Note: n=Number of subjects, #=Number of events.

Note: Rate is event rate per 1000 subject-years, calculated as the number of events x 1000, divided by the total treatment exposure.

Note: A chest x-ray/CT scan is associated with pneumonia if it is taken during the pneumonia or within -7 to +10 days (inclusive) of the date of onset.

Note: Pneumonia is supported by a chest x-ray/CT scan if there is an associated x-ray/CT scan which shows the presence of infiltrates.

Note: Summary includes only pneumonia events reported on the pneumonia eCRF page.

Programming note: Same format for Table 3.25 (Summary of Post-Treatment Pneumonia Incidence).

<user ID: pathname datestamp timestamp>

Example: SAF_T03
Protocol: 207626
Population: Intent-to-Treat

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Table 3.26

Summary of On-Treatment Details of Pneumonia

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|---|--------------------------------------|-------------------|
| Total number of cases of pneumonia | xx | xx |
| Cases of pneumonia with onset at most 14 days after the start of a moderate/severe exacerbation | xx (xx%) | xx (xx%) |
| Chest x-ray/CT scan taken | xx (xx%) | xx (xx%) |
| Findings consistent with diagnosis of pneumonia | xx (xx%) | xx (xx%) |
| No chest x-ray/CT scan taken | xx (xx%) | xx (xx%) |
| Hospitalised | xx (xx%) | xx (xx%) |
| Hospitalised and chest x-ray/CT scan taken | xx (xx%) | xx (xx%) |
| Findings consistent with diagnosis of pneumonia | x (xx%) | x (xx%) |
| No chest x-ray/CT scan taken | x (xx%) | x (xx%) |
| Fatal | xx (xx%) | xx (xx%) |
| Fatal and chest x-ray/CT scan taken | xx (xx%) | xx (xx%) |
| Findings consistent with diagnosis of pneumonia | xx (xx%) | xx (xx%) |
| No chest x-ray/CT scan taken | xx (xx%) | xx (xx%) |

Note: Table summarizes event counts. Percentages are calculated using the number of cases of pneumonia as the denominator.

Note: A chest x-ray/CT scan is associated with pneumonia if it is taken within the duration of the pneumonia or within -7 to +10 days (inclusive) of the date of onset.

Note: Summary includes pneumonia events reported on the pneumonia eCRF page.

<user ID: pathname datestamp timestamp>

Example: SAF_T03
Protocol: 207626
Population: Intent-to-Treat

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Table 3.25
Summary of On-Treatment Details of Pneumonia

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|--|--------------------------------------|-------------------|
| Level of cough | | |
| Increased level | xx (xx%) | xx (xx%) |
| Usual level | xx (xx%) | xx (xx%) |
| Increased sputum purulence | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |
| Lung evaluation shows crackles/rales, bronchial or bronchovesicular breath sounds | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |
| Worsening dyspnea | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |

Note: Table summarizes event counts. Percentages are calculated using the number of cases of pneumonia as the denominator.

Note: A chest x-ray/CT scan is associated with pneumonia if it is taken within the duration of the pneumonia or within -7 to +10 days (inclusive) of the date of onset.

Note: Summary includes pneumonia events reported on the pneumonia eCRF page.

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Example: SAF_T03
Protocol: 207626
Population: Intent-to-Treat

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Table 3.25
Summary of On-Treatment Details of Pneumonia

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|---------------------------------------|--------------------------------------|-------------------|
| Does subject have pleural effusion? | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |
| Does subject have hypoxemia? | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |
| WBC count performed at time of event | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |
| WBC count relative to reference range | | |
| High WBC | xx (xx%) | xx (xx%) |
| Normal WBC | xx (xx%) | xx (xx%) |
| Low WBC | xx (xx%) | xx (xx%) |

Note: Table summarizes event counts. Percentages are calculated using the number of cases of pneumonia as the denominator.

Note: A chest x-ray/CT scan is associated with pneumonia if it is taken within the duration of the pneumonia or within -7 to +10 days (inclusive) of the date of onset.

Note: Summary includes pneumonia events reported on the pneumonia eCRF page.

<user ID: pathname datestamp timestamp>

Example: SAF_T03
Protocol: 207626
Population: Intent-to-Treat

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Table 3.25
Summary of On-Treatment Details of Pneumonia

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|--|--------------------------------------|-------------------|
| Was BUN >19mg/dL (7mmol/L)? | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |
| Was there evidence the subject was confused? | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |
| Was the subject in an inpatient healthcare setting when the pneumonia developed? | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |
| Was a culture/swab taken? | | |
| Yes | xx (xx%) | xx (xx%) |
| No | xx (xx%) | xx (xx%) |
| Unknown | xx (xx%) | xx (xx%) |

Note: Table summarizes event counts. Percentages are calculated using the number of cases of pneumonia as the denominator.

Note: A chest x-ray/CT scan is associated with pneumonia if it is taken within the duration of the pneumonia or within -7 to +10 days (inclusive) of the date of onset.

Note: Summary includes pneumonia events reported on the pneumonia eCRF page.

<user ID: pathname datestamp timestamp>

Programming note: Same format for Table 3.26 (Summary of Post-Treatment Details of Pneumonia).

Example: SAF_T04
Protocol: 207626
Population: Intent-to-Treat

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Table 3.27
Summary of On-Treatment Bone Fractures

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | | TIO 18 (N=xxx) | |
|---|--------------------------------------|------------|-------------------|------------|
| | n (%) | Rate (%) | n (%) | Rate (%) |
| Total treatment exposure (subject-years)_ | | xxx.x | | xxx.x |
| Subjects with at least one bone fracture incident | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Total number (%) of bone fracture incidents per subject | | | | |
| n | | xxx (xx) | | xxx (xx) |
| 0 | | xxx (xx) | | xxx (xx) |
| 1 | | xxx (xx) | | xxx (xx) |
| >=2 | | xxx (xx) | | xxx (xx) |
| Number of fracture incidents which were [1]: | | | | |
| Non-traumatic | | xxx (xx) | | xxx (xx) |
| Traumatic | | xxx (xx) | | xxx (xx) |
| Subjects with at least one bone fracture | xxx (xx) | xxx.x (xx) | xxx (xx) | xxx.x (xx) |
| Fracture location [2, 3] | | | | |
| Chest | | xxx (xx) | | xxx (xx) |
| Ankle joint | | xxx (xx) | | xxx (xx) |

| | | |
|-------------------|----------|----------|
| Arm | xxx (xx) | xxx (xx) |
| Foot | xxx (xx) | xxx (xx) |
| Thoracic vertebra | xxx (xx) | xxx (xx) |

[1] Percentages calculated using the number of bone fracture incidents as the denominator.

[2] Percentages calculated using the number of bone fractures as the denominator.

[3] Fracture locations are only displayed when there is at least one fracture in either treatment group.

Note: n = Number of subjects, # = Number of fracture incidents.

Note: Rate is event rate per 1000 subject-years, calculated as the number of fracture incidents x 1000, divided by the total treatment exposure.

Note: Fractures in multiple locations with the same date of fracture are considered to comprise one fracture incident.

Programming note: Same format for Table 3.28 (Summary of Post-Treatment Bone Fractures).

<user ID: pathname datestamp timestamp>

Example: SAF_T05
Protocol: 207626
Population: Intent-to-Treat

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Table 3.29
Summary of Chest Imaging (X-Ray or CT Scan)

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|---|--------------------------------------|-------------------|
| Total number chest x-rays/CT scans taken: | | |
| Associated with pneumonia | xxx (xx) | xxx (xx) |
| Associated with moderate/severe exacerbation | xxx (xx) | xxx (xx) |
| Findings consistent with diagnosis of pneumonia | xxx (xx) | xxx (xx) |

Note: A chest x-ray/CT scan is associated with pneumonia if it is taken during the pneumonia or within -7 to +10 days (inclusive) of the date of onset.

Note: A chest x-ray/CT scan is associated with an exacerbation if it is taken during the exacerbation or within -7 to +10 days (inclusive) of the date of onset

Note: A single x-ray/CT scan can be associated with both pneumonia and an exacerbation.

Note: Summary includes on- and post-treatment chest x-rays/CT scans which were associated with an on-treatment case of pneumonia and/or exacerbation.

Note: Percentages are based on the total number of assessments/events within each summary.

<user ID: pathname datestamp timestamp>

Example: SAF_T06
Protocol: 207626
Population: Intent-to-Treat

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Table 3.30
Summary of Blood Chemistry Results at Screening

| Lab test | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|-----------------------------------|--------------------------------------|-------------------|
| Albumin (g/L) | | |
| n | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx xx |
| Median | xx.x | xx.x |
| Min. | x | x |
| Max. | xx | Xx |
| Alanine aminotransferase (IU/L) | | |
| n | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx xx |
| Median | xx.x | xx.x |
| Min. | x | x |
| Max. | xx | Xx |
| Aspartate aminotransferase (IU/L) | | |
| n | xxx | xxx |
| Mean | xx.x | xx.x |
| SD | xx.xx | xx xx |
| Median | xx.x | xx.x |
| Min. | x | x |
| Max. | xx | Xx |

Programming note: include all measured blood chemistry parameters. Only albumin, ALT, and AST are shown above for illustrative purposes.

Programming note: Same format for Table 3.31 (Summary of Hematology Results at Screening). Include all collected hematology parameters.

<user ID: pathname datestamp timestamp>

Example: SAF_T07
Protocol: 207626
Population: Intent-to-Treat

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Table 3.32
Summary of Vital Signs

| | Treatment | N | Visit | n | Mean | SD | Median | Min. | Max. |
|---------------------------------|---------------------------|-----|-----------|-----|-------|-------|--------|------|------|
| Systolic Blood Pressure (mmHg) | FF/UMEC/VI 100/62.5/25 | xxx | Screening | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | | | Day 84 | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | TIO 18 | xxx | Screening | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | | | Day 84 | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| Diastolic Blood Pressure (mmHg) | FF/UMEC/VI 100/62.5/25 | xxx | Screening | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | | | Day 84 | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | TIO 18 | xxx | Screening | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | | | Day 84 | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| Heart rate (beats/min) | FF/UMEC/VI 100/62.5/25 | xxx | Screening | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | | | Day 84 | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | TIO 18 | xxx | Screening | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |
| | | | Day 84 | xxx | xxx.x | xx.xx | xxx.x | xxx | xxx |

Programming note: Same format for Table 3.33 (Summary of Change from Baseline Vital Signs), but without row for Screening. Include early withdrawal and unscheduled visit data, if available, in both Tables 3.32 and 3.33.

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Example: SAF_T08
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Protocol: 207626
Population: Intent-to-Treat

Table 3.34
Summary of ECG Findings at Screening

| | FF/UMEC/VI 100/62.5/25 (N=xxx) | TIO 18 (N=xxx) |
|---------------------------------------|--------------------------------------|-------------------|
| n | xxx | xxx |
| Normal | xx (xx%) | xx (xx%) |
| Abnormal - not clinically significant | xx (xx%) | xx (xx%) |
| Abnormal - clinically significant | xx (xx%) | xx (xx%) |
| Unable to evaluate | xx (xx%) | xx (xx%) |

10.10.2. Listings

Example: POP_L01
Protocol: 207626
Population: Intent-to-Treat

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Listing 11
Listing of COPD Concomitant Medications

Country: xxx
Treatment: xxxxxxxxxxxx

| Centre ID/ Subject | Respiratory class/ Ingredient/ Verbatim text/ Indication | Dose/ Units/ Freq/ Route | Date started/ Study day/ Date stopped/ Study day | Taken prior to study?/ Ongoing medication?/ Treatment periods taken in | Administered for an exacerbation?/ Exacerbation severity/ Exacerbation start date |
|--------------------------|---|------------------------------------|---|--|--|
| xxxxxx/ xxxxxx | xxxxxxxxxxxxxx/ xxxxxxxxxxxxxxxxxx/ xxxxxxxxxxxxxx/ xxxxxxxxxxxxxxxxxx | xxxx/ xxxxx/ xxx/ xxxxxxx | xxxxxxxxxx/ xx/ xxxxxxxxxx/ xx | xxx/ xxx/ xxxxxxxxxx | xxx/ xxxxxxxxxxxxxx/ xxxxxxxxxx |

Note: Combination products are listed by individual ingredient in all applicable Respiratory Medication Classes.

<user ID: pathname datestamp timestamp>

Example: POP_L02
Protocol: 207626
Population: Intent-to-Treat

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Listing 12
Listing of Non-COPD Concomitant Medications

Country: xxx
Treatment: xxxxxxxxxxxx

| Centre ID/ Subject | ATC level 1/ Ingredient/ Verbatim text/ Indication | Dose/ Units/ Freq/ Route | Date started/ Study day/ Date stopped/ Study day | Taken prior to study?/ Ongoing medication?/ Treatment periods taken in |
|-----------------------|---|------------------------------------|---|--|
| xxxxxx/ xxxxxxxxxx | xxxxxxxxxxxxxxxx/ xxxxxxxxxxxxxxxxxx/ xxxxxxxxxxxxxxxx/ xxxxxxxxxxxxxxxxxx | xxxx/ xxxxx/ xxx/ xxxxxxx | xxxxxxxxxx/ xx/ xxxxxxxxxx/ xx | xxx/ xxx/ xxxxxxxxxx, xxxxxxx, xxxxxxxxxxxxxxxx |

Note: Combination products are listed by individual ingredient in all applicable Respiratory Medication Classes.

<user ID: pathname datestamp timestamp>

Example: SAF_L01
 Page 1 of x
 Protocol: 207626
 Population: Intent-to-Treat

Listing 13
 Listing of Exposure Data

Country: xxx
 Treatment: xxxxxxxxxxxx

| Centre ID | Subject | Exposure start date | Exposure end date | Date of Week 12 visit | Date of study completion/ withdrawal | Duration of exposure (days) [1] | Post-treatment duration (days) [2] |
|-----------|----------|---------------------------|----------------------|-----------------------------|---|--|--|
| xxxxxx | xxxxxxxx | xxxxxxx | xxxxxxx | xxxxxxx | xxxxxxx | xxx | xx |

[1]: Calculated as ((exposure end date - exposure start date) + 1).

[2]: Calculated as (date of study completion/withdrawal - exposure end date).

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Example: POP_L18
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Protocol: 207626
Population: All Subjects Enrolled

Listing 22
Listing of Unique Subject ID vs. Study Subject ID

Country: xxxxxx

| Centre ID | Treatment | Unique Subject ID | Study subject ID |
|-----------|------------|-------------------|------------------|
| xxx | xxxxxxxxxx | xxxxxxx.xxxxxx | Xxxxxxx.xxxxxx |

<user ID: pathname datestamp timestamp>

Example: POP_L03
Protocol: 207626
Population: Intent-to-Treat

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Listing 23
Listing of Study Treatment Misallocations

Country: xxx

| Treatment | Centre ID | Subject | Study day [1] | Date of dosing | | Container number | Actual treatment dispensed |
|-----------|-----------|---------|------------------|----------------|-----|---------------------|-------------------------------|
| xxx.xxxxx | xxx | xxx | xxx | xxx | xxx | xxx | xxx |

[1] Day, relative to randomization, on which treatment was dispensed.

[2] Dates on which actual treatment was dispensed or returned.

<user ID: pathname datestamp timestamp>

Example: POP_L04
 Protocol: 207626
 Population: Intent-to-Treat

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Listing 24
 Listing of Screening Lung Function, Reversibility Status, and GOLD Grade

Country: xxx
 Treatment: xxx
 Centre ID: xxx

| Subject | Visit / Visit date/ Study day | Planned relative time | Actual time | FEV ₁ (L) | FVC (L) | Percent predicted FEV ₁ (%) | Reversibility to salbutamol (mL) / (%) | FEV ₁ /FVC | GOLD grade |
|-----------|---|-----------------------------|----------------|-------------------------|---------|--|--|-----------------------|---------------|
| xxx.xxxxx | xxx | xxx | xxx | xxx | xxx | xxx | xxx | xxx | xxx |

<user ID: pathname datestamp timestamp>

Example: POP_L05
Protocol: 207626
Population: Intent-to-Treat

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Listing 25
Listing of Medical Conditions

Country: xxx

| Centre ID | Subject | Treatment | Body system | Condition | Current or Past? |
|-----------|----------|-----------|-------------|-----------|------------------|
| xxxx | xxx.xxxx | xxxx | xxxx | xxxx | Current |
| | | | xxxx | xxxx | Past |

<user ID: pathname datestamp timestamp>

Example: POP_L06
Protocol: 207626
Population: Intent-to-Treat

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Listing 26
Listing of Family History of Cardiovascular Risk Factors

Country: xxx

| Treatment | Centre ID | Subject | Family History [1] | | |
|-----------|-----------|----------|--|--------------------------|----------|
| | | | Premature coronary artery disease [2] | Myocardial infarction | Stroke |
| xxx | xxx | xxx.xxxx | <yes/no> | <yes/no> | <yes/no> |

[1] Family history in first degree relatives only (e.g. biological parent, sibling, or offspring).

[2] Family history of premature coronary artery disease in women < 65 years or men < 55 years in first degree relatives only.

<user ID: pathname datestamp timestamp>

Example: POP_L07
Protocol: 207626
Population: Intent-to-Treat

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Listing 27
Listing of COPD Duration and Exacerbation History

Country: xxx

| Treatment | Centre ID | Subject | Number of exacerbations in past 12 months | | |
|-----------|-----------|----------|---|--------|--------------------------|
| | | | Moderate | Severe | Total moderate/severe |
| xxx | xxx | xxx.xxxx | x | x | x |

Note: Moderate exacerbations are defined as exacerbations that required treatment with oral or systemic corticosteroids and/or antibiotics (not involving hospitalization). Severe exacerbations are defined as exacerbations that required in-patient hospitalization.

<user ID: pathname datestamp timestamp>

Example: POP_L08
Protocol: 207626
Population: Intent-to-Treat

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Listing 28
Listing of Smoking History and Smoking Status

Country: xxx
Treatment: xxx

| Centre ID / Subject | Visit | Years smoked / Cigarettes per day | Smoking pack-years [1] | Smoking status | Change in status? | Status change / Date change made / Study day |
|------------------------|-----------|---|------------------------------|-----------------------|----------------------|--|
| xxx / xxx.xxx | Screening | xx / xx | xx.x | <current / former> | | xx / xx / xx |
| | Day 84 | xx / xx | xx.x | <current / former> | <yes / no> | xx / xx / xx |

Programming note: include early withdrawal and unscheduled visit data if available.

<user ID: pathname datestamp timestamp>

Example: POP_L09
Protocol: 207626
Population: Intent-to-Treat

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Listing 29

Relationship between ATC Level 1, Ingredient, and Verbatim Text for Non-COPD Medications

| ATC Level 1 | Ingredient | Verbatim text |
|-------------|------------|---------------|
| xxxx | xxx | xxx |
| | | xxx |
| xxx | xxx | xxx |

<user ID: pathname datestamp timestamp>

Example: POP_L10
Protocol: 207626
Population: Intent-to-Treat

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Listing 30
Listing of Treatment Compliance Data

Country: xxx
Treatment: xxx

| Centre ID | Subject | Study Phase | Overall compliance (%) | ELLIPTA compliance (%) | Handihaler compliance (%) |
|-----------|----------|------------------------------|---------------------------|---------------------------|------------------------------|
| xxx | xxx.xxxx | Run-in Study treatment | xx.x | xx.x | xxx. |

Note: Compliance values for each device are only calculated for subjects with complete treatment dispensing information.

<user ID: pathname datestamp timestamp>

Example: EFF_L01
Protocol: 207626
Population: Intent-to-Treat

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Listing 31
Listing of Raw FEV₁ (L) and FVC (L) Data

Country: xxx
Treatment: xxx
Centre ID: xxx

| Subject | Visit/ Visit date/ Study day | Study phase | Planned relative time | Actual time | Baseline FEV ₁ (L) | FEV ₁ (L) / Change from baseline FEV ₁ (L) | Baseline FVC (L) | FVC (L) / Change from baseline FVC (L) |
|----------|------------------------------------|----------------|-----------------------------|----------------|----------------------------------|--|---------------------|--|
| xxxxxxxx | xxxxx/ xxxxx/ xxx | xxxxxxxx | xxxxxxxxxxxx | xxxxxx | x.xxx | x.xxx | x.xxx | x.xxx |

<user ID: pathname datestamp timestamp>

Example: EFF_L02
Protocol: 207626
Population: Intent-to-Treat

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Listing 32
Listing of COPD Exacerbations

Country: xxx
Treatment: xxx

| Centre ID / Subject | Date of onset / Study day | Study phase at onset | Date of resolution or death / Duration (days) | Outcome | Corticosteroids taken? / Antibiotics taken? / Visited ER? / Hospitalized? |
|------------------------|------------------------------|-------------------------|---|---------|--|
| xxxx / xxx.xxxx | xxx / xxx | xxx | xxx / xxx | xxx | xxx / xxx / xxx / xxx |

<user ID: pathname datestamp timestamp>

Example: EFF_L03
Protocol: 207626
Population: Intent-to-Treat

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Listing 33
Listing of SGRQ Scores

Country: xxx
Treatment: xxx

| Centre ID / Subject | Language | Visit date / Study day | Study phase | Baseline symptoms score | Symptoms score / Change from baseline | Baseline activity score | Activity score / Change from baseline | Baseline impacts score | Impacts score / Change from baseline |
|---------------------------|----------|---------------------------------|----------------|-------------------------------|---|-------------------------------|---|------------------------------|--|
| xxx / xxx.xxxx | xxx | xxx / xxx | xxx | xxx | xxx / xxx | xxx | xxx / xxx | xxx | xxx / xxx |

Note: Responders are defined as those subjects whose SGRQ total score is 4 units or more below baseline. Non-responders are defined as those subjects whose SGRQ total score is more than 4 units below baseline or a missing SGRQ total score at a the timepoint in question and no subsequent on-treatment scores. Subjects will not be assigned a responder status at any timepoint if their baseline SGRQ total score is missing. Subjects will not have a responder status assigned at a given timepoint if the SGRQ total score at that timepoint is missing.

Programming note: Adjust distribution of columns across pages as necessary.

<user ID: pathname datestamp timestamp>

Example: EFF_L03
Protocol: 207626
Population: Intent-to-Treat

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Listing 33
Listing of SGRQ Scores

Country: xxx
Treatment: xxx

| Centre ID / Subject | Language | Visit date / Study day | Baseline total score | Total score / Change from baseline | Responder? [1] |
|------------------------|----------|---------------------------|-------------------------|--|----------------|
| xxx / xxx.xxxx | xxx | xxx / xxx | xxx | xxx | <yes / no> |

Note: Responders are defined as those subjects whose SGRQ total score is 4 units or more below baseline. Non-responders are defined as those subjects whose SGRQ total score is more than 4 units below baseline or a missing SGRQ total score at the timepoint in question and no subsequent on-treatment scores. Subjects will not be assigned a responder status at any timepoint if their baseline SGRQ total score is missing. Subjects will not have a responder status assigned at a given timepoint if the SGRQ total score at that timepoint is missing.

Programming note: Adjust distribution of columns across pages as necessary.

<user ID: pathname datestamp timestamp>

Example: EFF_L04
Protocol: 207626
Population: Intent-to-Treat

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Listing 34
Listing of CAT Scores

Country: xxx
Treatment: xxx

CAT score /
Change from
baseline

| Centre ID / Subject | Language | Visit date / Study day | Baseline CAT score | | Responder? [1] |
|------------------------|----------|---------------------------|-----------------------|-----|----------------|
| xxx / xxx.xxxx | xxx | xxx / xxx | xxx | xxx | <yes / no> |

[1] Responders are defined as those subjects whose CAT score is 2 units or more below baseline. Non-responders are defined as those subjects whose CAT score is more than 2 units below baseline or who have a missing CAT score at a the timepoint in question and no subsequent on-treatment scores. Subjects will not be assigned a responder status at any timepoint if their baseline CAT score is missing. Subjects will not have a responder status assigned at a given timepoint if the CAT score at that timepoint is missing.

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Example: SAF_L02
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Protocol: 207626
Population: Intent-to-Treat

Listing 35
AE Terms of Special Interest

| Special Interest Term | Subgroup | Preferred Term |
|-----------------------|----------|-------------------|
| xxxxxxxx | xxxxxxxx | xxxxxxx |
| | | xxxxxxxxxxxxx |
| xxxxxxxxxxxxxxxxx | xxxxxxxx | xxxxxxxxxxxxxxxxx |

Note: All of the pre-specified preferred terms that were assigned to special interest terms are shown, regardless of whether they actually occurred in the study.

<user ID: pathname datestamp timestamp>

Example: SAF_L03
Protocol: 207626
Population: Intent-to-Treat

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Listing 37
Listing of Pneumonia Data

Country: xxx
Treatment: xxx

| Centre ID / Subject | Date of onset / Study phase at onset / Supported by X-ray or CT scan? | eCRF question | Response |
|------------------------|--|---|-------------------------|
| xxx / xxx.xxxx | xxx / xxx / xxx / xxx | Level of cough | <yes / no / unknown> |
| | | Increased sputum purulence? | |
| | | Did the chest auscultation show evidence of crackles / rales and / or bronchial or brochovesicular breath sounds? | |
| | | Worsening dyspnea? | |
| | | Does subject have pleural effusion? | |
| | | Does subject have hypoxemia? | |
| | | Was WBC count assessed at time of event? | |
| | | Was BUN > 19mg/dL (7mmol / L)? | |
| | | Was there evidence of subject confusion? | |
| | | Was subject in an inpatient health care setting when pneumonia developed? | |
| | | Was a culture or swab taken? | |

<user ID: pathname datestamp timestamp>

Example: SAF_L04
Protocol: 207626
Population: Intent-to-Treat

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Listing 38
Listing of Bone Fracture Data

Country: xxx
Treatment: xxx

| Centre ID / Subject | Fracture date / Study phase | Fracture type | Side | Fracture location |
|------------------------|--------------------------------|---------------|----------------|-------------------|
| xxx / xxx.xxxx | xxx / xxx | xxx | <left / right> | |

<user ID: pathname datestamp timestamp>

Example: SAF_L05
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 Protocol: 207626
 Population: Intent-to-Treat

Listing 39

Listing of Chest Imaging (X-ray or CT scan) Data

Country: xxx
 Treatment: xxx

| Centre ID/ Subject | Date of image/ Study phase/ Study day | Associated with pneumonia | Associated with moderate/severe exacerbation | Consistent with diagnosis of pneumonia |
|-----------------------|---|------------------------------|--|--|
| xxxxxx/ xxxxxx | xxxxxx/ xxxxxxxxxx/ xxx | xxx | xxx | xxx |

Note: A chest x-ray/CT scan is associated with pneumonia if it is taken during the pneumonia or within -7 to +10 days (inclusive) of the date of onset.

Note: A chest x-ray/CT scan is associated with a moderate/severe exacerbation if it is taken during the exacerbation or within -7 to +10 days (inclusive) of the date of onset.

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<user ID: pathname datestamp timestamp>

Example: SAF_L06
Protocol: 207626
Population: Intent-to-Treat

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Listing 40

Listing of Liver Event Results and Time of Event Relative to Treatment

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Maximum status of the liver event | Date first detected / Study phase at event onset / Study day | Days from first dose to start of event | Days from last dose to start of event | Restart / rechallenge after stopping criteria were met? | Outcome / Date resolved |
|------------------------|-------------------------|--|--|---|--|--|-------------------------------|
| xxx / xxx | xxx / xxx / xxx | xxx | xxx / xxx / xxx | xxx | xxx | xxx | xxx / xxx |

<user ID: pathname datestamp timestamp>

Example: SAF_L07
Protocol: 207626
Population: Intent-to-Treat

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Listing 41

Listing of Medical Conditions for Subjects with Liver Stopping Events

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Condition | Status |
|------------------------|-------------------------|---|--|
| xxx / xxx | xxx / xxx / xxx | Acute Viral Hepatitis A | <current/past/no medical condition/not assessed> |
| | | Acute hepatitis B | |
| | | Chronic hepatitis B | |
| | | Hepatitis B carrier | |
| | | Chronic hepatitis C | |
| | | Cytomegalovirus hepatitis | |
| | | Epstein-Barr virus infectious mononucleosis | |
| | | Herpes simplex hepatitis | |
| | | Alcoholic liver disease | |
| | | Non-alcoholic steatohepatitis | |
| | | Fatty liver | |
| | | Hepatic cirrhosis | |
| | | Hemochromatosis | |
| | | Autoimmune hepatitis | |
| | | Gallbladder disease | |
| | | Hepatobiliary cancer | |
| | | Liver metastasis | |
| | | Hepatitis E IgM antibody | |
| | | Drug-related liver disease | |
| | | Other condition (specify) | |

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Drug allergies

<user ID: pathname datestamp timestamp>

Example: SAF_L07
Protocol: 207626
Population: Intent-to-Treat

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Listing 41
Listing of Medical Conditions for Subjects with Liver Stopping Events

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Condition | Status |
|------------------------|-------------------------|----------------------------|--|
| xxx / xxx | xxx / xxx / xxx | Rheumatoid arthritis | <current/past/no medical condition/not assessed> |
| | | Psoriasis | |
| | | Thyroid disease | |
| | | Inflammatory bowel disease | |
| | | Lupus | |
| | | Sjogren's syndrome | |
| | | Vilitigi | |

<user ID: pathname datestamp timestamp>

Example: SAF_L08
Protocol: 207626
Population: Intent-to-Treat

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Listing 42
Listing of Substance Use for Subjects with Liver Stopping Events

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Date of assessment | Does subject consume alcohol? | If yes, avg number of units consumed per week |
|------------------------|-------------------------|-----------------------|----------------------------------|--|
| xxx / xxx | xxx / xxx | ddMMyyyy | <yes/no> | xxx |
| | / xxx | | | |

<user ID: pathname datestamp timestamp>

Example: SAF_L09
Protocol: 207626
Population: Intent-to-Treat

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Listing 43
Listing of Liver Event Information for RUCAM Scores

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Liver stopping event date | Serious AE? / If female, pregnant? | Diagnostic tests performed? / If so, normal? | Liver biopsies performed? | Use of herbals, supplements, illicit drugs? / Dietary change in past week? | Criterion/ criteria met |
|------------------------|----------------------------|---------------------------------|---|--|---------------------------------|---|--|
| xxx / xxx | xxx / xxx / xxx | ddMMMyyyy | <yes / no> / <yes / no> | <yes / no> / <yes / no> | <yes / no> | <yes / no> / <yes / no> | <i>list all criteria checked</i> |

<user ID: pathname datestamp timestamp>

Example: SAF_L10
Protocol: 207626
Population: Intent-to-Treat

Listing 44
Listing of Liver Biopsy Details

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Date of biopsy | Appx size of biopsy (unit) | Final diagnosis | Final diagnosis details | Liver architecture | Liver architecture details |
|---------------------------|-------------------------------|-------------------|-------------------------------------|--------------------|--|-----------------------|--|
| xxx / xxx | xxx / xxx / xxx | | | | <i>If "Final diagnosis" is "Abnormal," list all conditions that apply.</i> | | <i>If "Liver architecture" is "Abnormal," list all conditions that apply</i> |

<user ID: pathname datestamp timestamp>

Example: SAF_L10
 Protocol: 207626
 Population: Intent-to-Treat

Listing 44
 Listing of Liver Biopsy Details

Country: xxx
 Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Date of biopsy | Description of liver cells or hepatocytes | Description of liver cells or hepatocytes details | Liver cell or hepatocyte inclusions or vacuoles | Liver cell or hepatocyte inclusions or vacuoles details |
|---------------------------|-------------------------------|----------------------|--|--|--|--|
| xxx / xxx | xxx / xxx / xxx | | | <i>If "Description of liver cells or hepatocytes" is "abnormal," list all conditions that apply.</i> | | <i>If "Liver cell or hepatocyte inclusions or vacuoles," is answered, list all conditions that apply</i> |

<user ID: pathname datestamp timestamp>

Example: SAF_L10
Protocol: 207626
Population: Intent-to-Treat

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Listing 44
Listing of Liver Biopsy Details

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Date of biopsy | Hepatocyte or liver cell nuclear abnormalities | Hepatocyte or liver cell nuclear abnormalities details | Liver or lobular infiltrates | Liver or lobular infiltrates details |
|---------------------------|-------------------------------|----------------------|---|--|---------------------------------|---|
| xxx / xxx | xxx / xxx / xxx | | | <i>If "Hepatocyte or liver cell abnormalities" is "Yes," list all conditions that apply.</i> | | <i>If "Liver or lobular infiltrates" is "Yes," list all conditions that apply</i> |

<user ID: pathname datestamp timestamp>

Example: SAF_L10
Protocol: 207626
Population: Intent-to-Treat

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Listing 44
Listing of Liver Biopsy Details

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Date of biopsy | Portal tract inflammation Portal tract inflammation | Portal tract inflammation details | Bile ducts | Bile ducts details |
|---------------------------|-------------------------------|----------------------|--|---|------------|--|
| xxx / xxx | xxx / xxx / xxx | | | <i>If "Portal tract inflammation" is "Yes," list all conditions that apply.</i> | | <i>If "Bile ducts" is "Abnormal," list all conditions that apply</i> |

<user ID: pathname datestamp timestamp>

Example: SAF_L10
Protocol: 207626
Population: Intent-to-Treat

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Listing 44
Listing of Liver Biopsy Details

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Date of biopsy | Portal veins | Portal veins details | Liver infections | Liver infections details |
|---------------------|----------------------|----------------|--------------|---|------------------|--|
| xxx / xxx | xxx / xxx | | | <i>If "Portal veins" is "Abnormal," list all conditions that apply.</i> | | <i>If "Liver infections" is "Abnormal," list all conditions that apply</i> |

<user ID: pathname datestamp timestamp>

Example: SAF_L10
Protocol: 207626
Population: Intent-to-Treat

Listing 44
Listing of Liver Biopsy Details

Country: xxx
Treatment: xxx

| Centre ID / Subject | Age (y) / Sex / Race | Date of biopsy | Parasites or ova | Parasites or ova | Histologic staining or additional studies? | Histologic staining or additional studies details |
|---------------------|----------------------|----------------|------------------|--|--|---|
| xxx / xxx | xxx / xxx | | | <i>If "Parasites or ova" is "Yes," list all conditions that apply.</i> | | <i>If "Histologic staining or additional studies?" is "Yes," list all items that apply.</i> |

<user ID: pathname datestamp timestamp>

Example: SAF_L11
Protocol: 207626
Population: Intent-to-Treat

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Listing 45
Listing of Liver Imaging Details

| Centre ID / Subject | Age (y) / Sex / Race | Date of hepatic or liver imaging | Method used / Adequate images? | Liver size / texture / grade | Accites present? | Hepatic lesions? | Biliary ductal leisions? | Portal or hepatic vein abnormalities? |
|---------------------------|-------------------------------------|---|---|------------------------------------|---------------------|---------------------------|--------------------------------|---|
| xxx / xxx | xxx / xxx / xxx | ddMMyyyy | xxx / xxx | xxx / xxx / xxx | xxx | List all that apply | List all that apply | List all that apply |

<user ID: pathname datestamp timestamp>

Example: SAF_L12
Protocol: 207626
Population: Intent-to-Treat

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Listing 46
Listing of Inhaler Malfunctions

Country: xxx
Treatment: xxx

| Centre ID | Subject | Age (y) / Sex / Race | Container number | Malfunctioning device type | Malfunction comment / Reason for device malfunction |
|-----------|----------|-------------------------|---------------------|-------------------------------|---|
| xxx | xxx.xxxx | xxx / xxx / xxx | Xxx | xxx | xxx / xxx |

<user ID: pathname datestamp timestamp>

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Example: SAF_L14
Protocol: 207626
Population: Intent-to-Treat

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Listing 47
Listing of Hepatitis B and C Test Results

Country: xxxxxx
Treatment: xxxxxxxx

| Centre ID | Subject | Study phase/ Visit/ Visit date | Hepatitis B surface antigen | Hepatitis C antibody |
|-----------|---------|--------------------------------------|--------------------------------|----------------------|
| xxxxxx | xxxxxx | xxxxxxxxxx/ xxxxxxxxxx/ xxxxxx | xxxxxxxxxxxxxx | xxxxxxxxxxxxxx |

Example: SAF_L15
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Protocol: 207626
Population: Intent-to-Treat

Listing 48
Listing of ECG Data

Country: xxxxxx
Treatment: xxxxxxxx

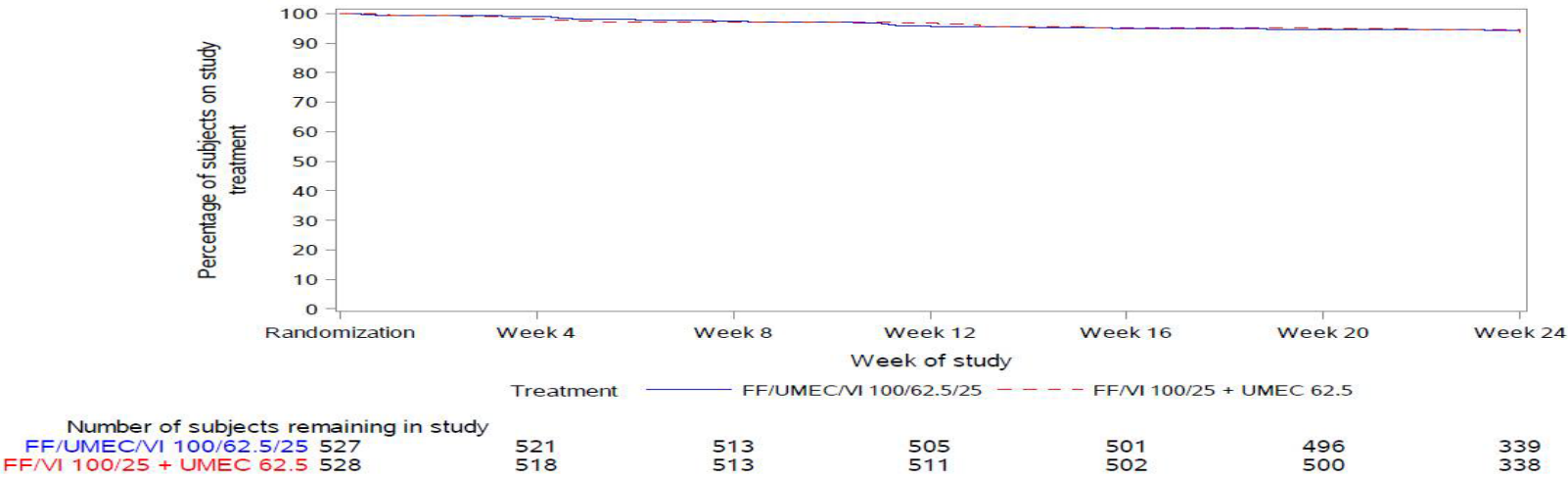
| Centre ID | Subject | Visit/ Visit date/ Study phase/ Study day | Result | Abnormality |
|-----------|---------|--|---|----------------------|
| xxxxxx | xxxxxx | xxxxxx/ xxxxxx/ xxxxxxxx/ xx | <Normal / Abnormal - not clinically significant / Abnormal - clinically significant> | xxxxxxxxxxxxxx xx |

<user ID: pathname datestamp timestamp>

10.10.3. Figures

Example: POP_F01
Protocol: 207626
Population: Intent-to-Treat

Figure 1.2
Kaplan-Meier Plot of Time to Study Withdrawal



Note: Subjects who complete the treatment period are censored at the date of study treatment completion or day 168 whichever is the earliest.

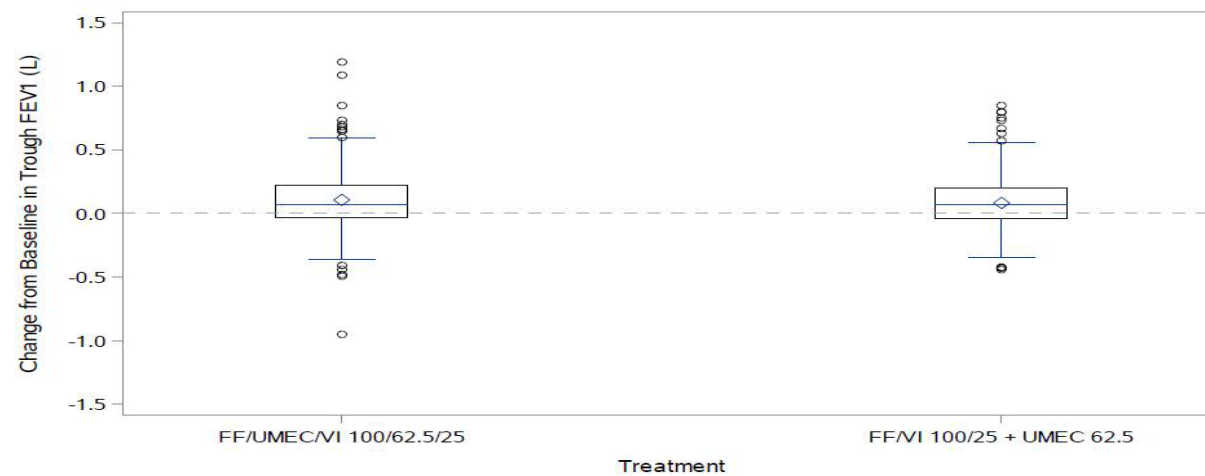
PPD

Programming note: same format for Figure 1.2 (Kaplan-Meier Plot of Time to Study Treatment Discontinuation)

Example: EFF_F01
Protocol: 207626
Population: Intent-to-Treat

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Figure 2.1
Box Plot of Change from Baseline in Trough FEV₁ (L) on Day 85 - Hypothetical Estimand



PPD

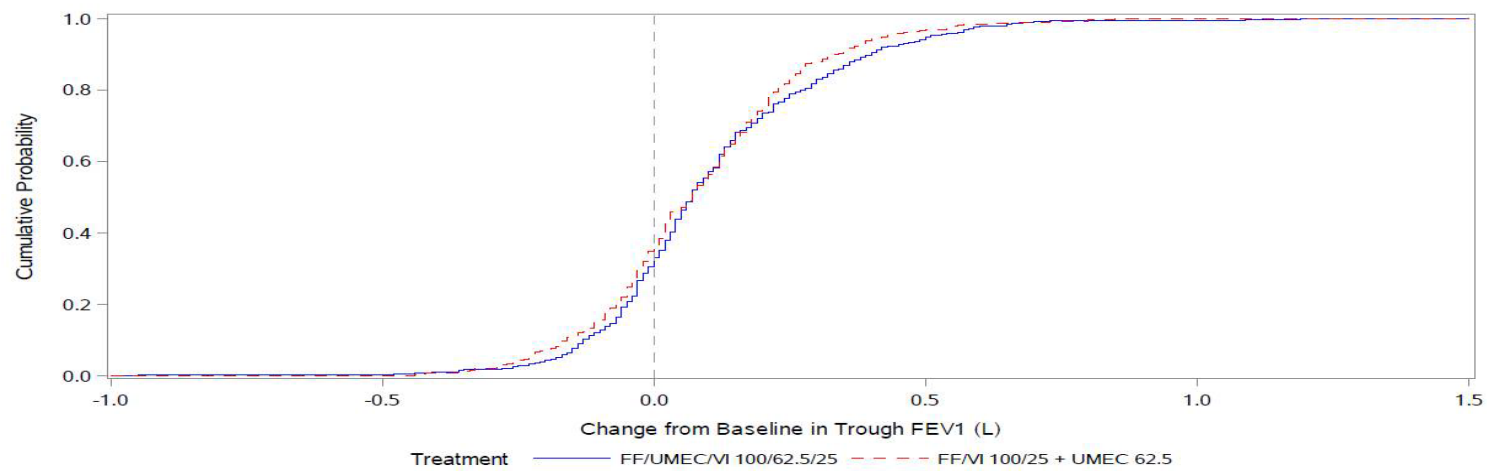
Programming note: same format for Figure 2.4 (Box Plot of Change from Baseline in Trough FEV₁ (L) on Day 85 - Treatment Policy Estimand)

Example: EFF_F02
Protocol: 207626
Population: Intent-to-Treat

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Figure 2.2

Empirical Distribution Function Plot of Change from Baseline in Trough FEV1 (L) on Day 85 - Hypothetical Estimand



PPD

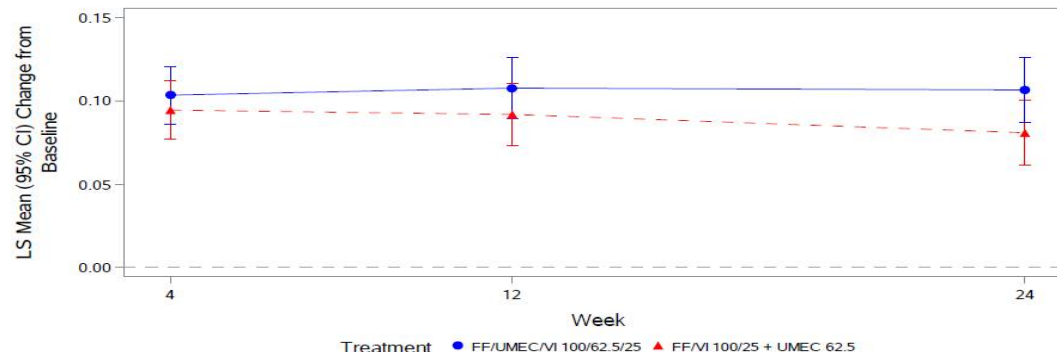
Programming note: same format for Figure 2.5 (Empirical Distribution Function Plot of Change from Baseline in Trough FEV1 (L) on Day 85 -- treatment policy estimand), Figure 2.7 (Empirical Distribution Function Plot of Change from Baseline in SGRQ Total Score on Day 84 - Hypothetical Estimand), and Figure 2.9 (Empirical Distribution Function Plot of Change from Baseline in CAT Score on Day 84 - Hypothetical Estimand)

Example: EFF_F03
Protocol: 207626
Population: Intent-to-Treat

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Figure 2.3

Least Squares Mean (95% CI) Change from Baseline in Trough FEV1 (L) - Hypothetical Estimand



Note: Analysis performed using a repeated measures model with covariates of baseline FEV1, stratum (number of long-acting bronchodilators per day during the run-in: 0/1 or 2), visit, geographical region, treatment, visit by treatment and visit by baseline interaction.

PPD

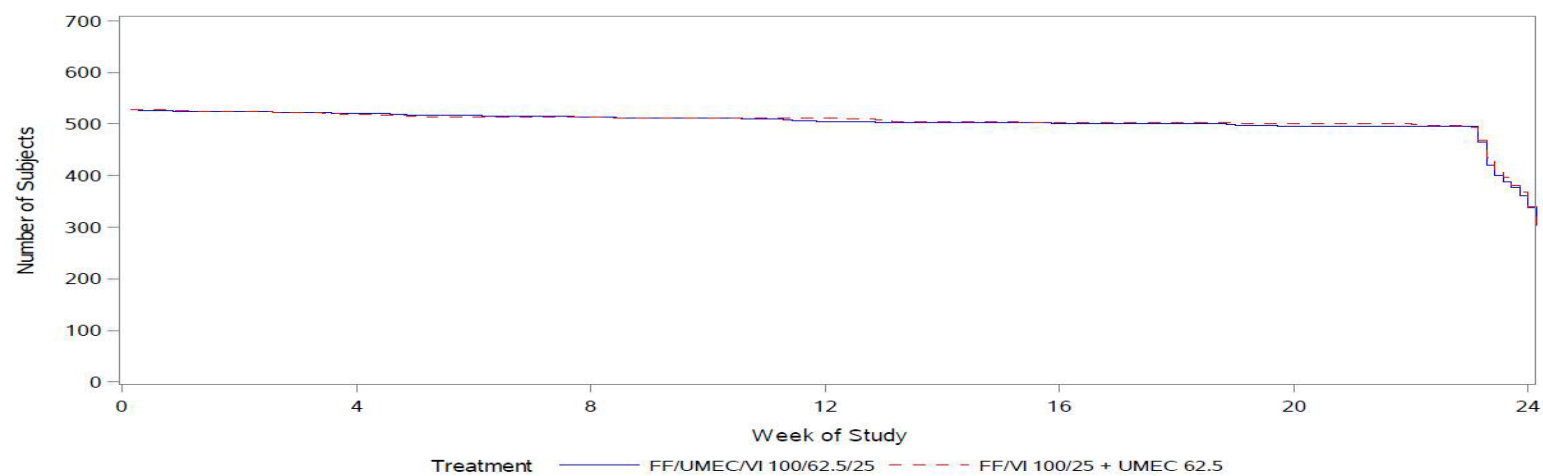
Programming note: same format for Figure 2.6 (Least Squares Mean (95% CI) Change from Baseline in Trough FEV1 (L) - Treatment Policy Estimand), Figure 2.8 (Least Squares Mean (95% CI) Change from Baseline in SGRQ Total Score - Hypothetical Estimand), and Figure 2.10 (Least Squares Mean (95% CI) Change from Baseline in CAT Score - Hypothetical Estimand)

Programming note: Footnotes for Figures will be study-specific; those shown above are illustrative only.

Example: SAF_F01
Protocol: 207626
Population: Intent-to-Treat

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Figure 3.1
Summary of Treatment Exposure



PPD